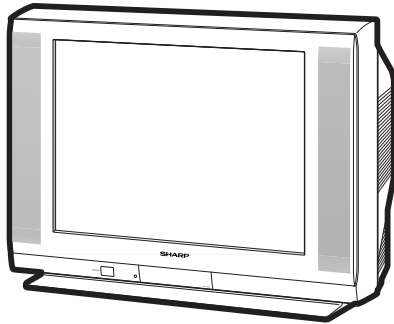


SHARP SERVICE MANUAL

S13W527F630//



COLOR TELEVISION
Chassis No. GB-3U

MODELS
27F630
27F631

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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ELECTRICAL SPECIFICATIONS

POWER INPUT 120V AC, 60 Hz
 POWER RATING 135W
 PICTURE SIZE 2,193.5 cm² (339sq inch)
 CONVERGENCE Magnetic
 SWEEP DEFLECTION Magnetic
 FOCUS Hi-Bi-Potential Electrostatic
 INTERMEDIATE FREQUENCIES
 Picture IF Carrier Frequency 45.75 MHz
 Sound IF Carrier Frequency 41.25 MHz
 Color Sub-Carrier Frequency 42.17 MHz
 (Nominal)

AUDIO POWER
 OUTPUT RATING 5.0W + 5.0W (at 10% distortion and
 Dual CH Operate)

SPEAKER
 SIZE 12 x 6 cm oval (2 pcs.)
 VOICE COIL IMPEDANCE 8 ohm at 400 Hz
 ANTENNA INPUT IMPEDANCE
 VHF/UHF 75 ohm Unbalanced
 TUNING RANGES
 VHF-Channels 2 thru 13
 UHF-Channels 14 thru 69
 CATV Channels 1 thru 125
 (EIA, Channel Plan U.S.A.)

Specifications are subject to change without prior notice.

SHARP CORPORATION

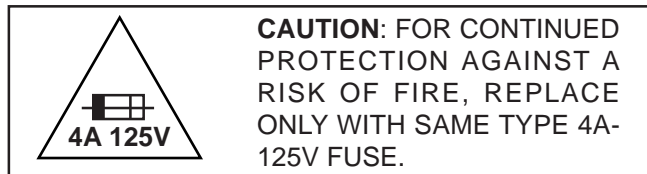
This document has been published to be used for after sales service only.
 The contents are subject to change without notice.

IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.
To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.
It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter. The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver.
Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

IMPORTANT SERVICE SAFETY PRECAUTION

(Continued)

BEFORE RETURNING THE RECEIVER

(Fire & Shock Hazard)

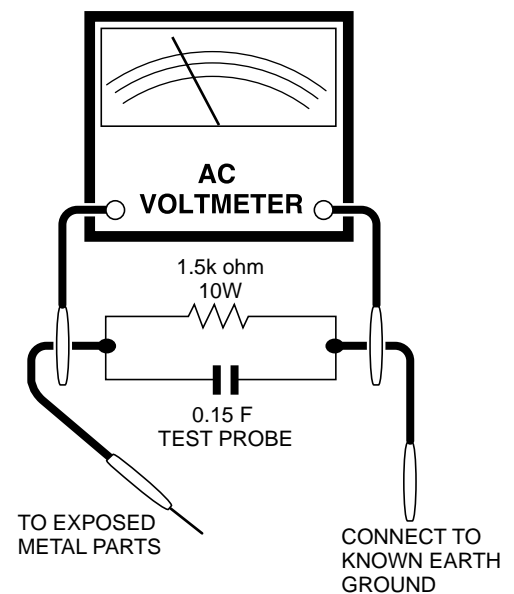
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
 - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
 - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC line cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " \triangle " and shaded areas in the Replacement Parts Lists and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

LOCATION OF USER'S CONTROL

Front Panel

POWER
Press → On.
Press again → Off.

**REMOTE CONTROL
SENSOR**

MENU
Press → Accesses MAIN MENU.
Press again → Exits MAIN MENU.

VOLUME UP/DOWN
(+) Increases sound.
(-) Decreases sound.

INSIDE DOOR

**VIDEO/AUDIO IN 2
TERMINALS**

CHANNEL UP/DOWN

(▲) Selects next higher channel.
(▼) Selects next lower channel.

Basic Remote Control Functions

POWER
Press → On.
Press again → Off.

REMOTE KEYPAD
Accesses any channel from keypad.

FLASHBACK
Returns to previous channel.

PERSONAL PREFERENCE
With the Personal Preference buttons, you can program your favorite programs by using the 4 categories A, B, C and D. The channels can be accessed quickly by using these buttons.

VOLUME UP/DOWN
(+) Increases sound.
(-) Decreases sound.
• Changes or selects the TV adjustments on On-Screen Display.

MENU
Press → Accesses MAIN MENU.
Press again → Exits MAIN MENU.

MUTE
Press → Mutes sound.
Press again → Restores sound.
• When sound is muted, **CLOSED CAPTION** appears if available.

POWER (DVD/VCR)
Press → On.
Press again → Off.

DVD/VCR CONTROL

Infrared Transmitter Window

CATV/DVD-TV/VCR MODE buttons
Press TV/VCR → Signals sent will be for TV and VCR control.
Press CATV/DVD → Signals sent will be for cable TV converter and DVD control.

DISPLAY

Press → Displays receiving channel for 4 seconds.
Press again → Removes display.
• Temporarily displays receiving channel when in Closed Caption mode.

INPUT

Press → Switches to external video INPUT 1 mode.
Press twice → Switches to external video INPUT 2 mode.
Press 3 times → Switches to external video INPUT 3 mode or COMPONENT mode.
Press 4 times → Switches back to the original TV mode.

ENTER

Used in some instances where a Cable Converter Box requires an "enter" command after selecting channels, when using the REMOTE KEYPAD button.

CHANNEL UP/DOWN

(▲) Selects next higher channel.
(▼) Selects next lower channel.
• Moves the "■" mark on the MENU screens.

SKIP/VCR-CH

REC

Note:

- The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

INSTALLATION AND SERVICE INSTRUCTIONS

- Note:** (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.
(2) Before performing adjustments, the TV set must be on at least 15 minutes.

CIRCUIT PROTECTION

The receiver is protected by a 4.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:

1. Apply 120V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Receive a good local channel.
4. Connect a digital voltmeter to TP651 (Pin 3) and make sure that the voltmeter reads $13.85 \pm 0.6V$ DC.
5. Apply external 17.3V DC at TP651 by using an external DC supply, TV must be shut off.
6. To reset the protector, unplug the AC cord and plug the AC cord power on. Now make sure that normal picture appears on the screen.
7. If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "V11" and Bus data "01" (Y-mute on, CRT Cut Off).
4. The voltage should be below 31.5kV (at zero beam). If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

Note: There are still a few analog adjustments in this series such as focus and master screen voltage. Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "V01" to "P08". Select the item you wish to adjust.

3. Data number selection

Press the Vol-up or Vol-down button to adjust the data number.

To enter the service mode and exit service mode.

To enter the service mode manually just press and hold the Vol-down and Ch-up buttons at the same time, plug the AC cord into a wall socket.

Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

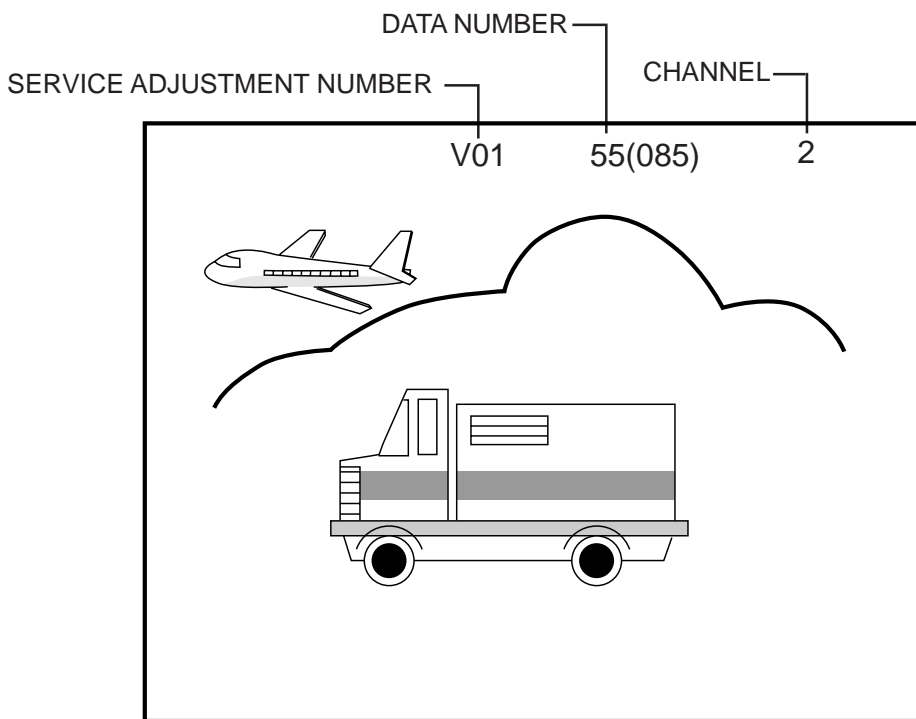


Figure A.

A. VCJ IC ADJUSTMENT

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
V01	PICTURE	0-15 (00h-0Fh)	8 (08h)		
V02	TINT	0-127 (00h-7Fh)	66 (42h)		
V03	COLOR	0-127 (00h-7Fh)	56 (38h)		
V05	BRIGHT	0-127 (00h-7Fh)	64 (40h)		
V06	R CUT-OFF	64-255 (40h-FFh)	64 (40h)		
V07	G CUT-OFF	64-255 (40h-FFh)	64 (40h)		
V08	B CUT-OFF	64-255 (40h-FFh)	64 (40h)		
V09	G/R DRIVE	0-127 (00h-7Fh)	64 (40h)		
V10	B DRIVE	0-127 (00h-7Fh)	64 (40h)		
V11	Y-MUTE/V-STOP	0-2	0 (00h)	Y-Mute / Horizontal "—"	
V12	SHARP	0-63 (00h-3Fh)	50 (32h)		32
V13	DC RESTORATION	0-3 (00h-03h)	2 (02h)		02
V14	BLACK STRETCH	0-3 (00h-03h)	2 (02h)		02
V15	ABL START POINT	0-3 (00h-03h)	3 (03h)		03
V16	ABL GAIN	0-3 (00h-03h)	2 (02h)		02
V17	γ POINT	0-3 (00h-03h)	0 (00h)		00
V19	ENERGY SAVE	0-63 (00h-3Fh)	63 (3Fh)	Offset	3F
V24	LOW-G	0-255 (00h-FFh)	12 (0Ch)	Color Temp.	F4
V25	LOW-B	0-255 (00h-FFh)	241 (F1h)	Color Temp.	E6
V26	ML-G	0-255 (00h-FFh)	0 (00h)	Color Temp.	FD
V27	ML-B	0-255 (00h-FFh)	247 (F7h)	Color Temp.	F8
V28	HIGH-G	0-255 (00h-FFh)	2 (02h)	Color Temp.	01
V29	HIGH-B	0-255 (00h-FFh)	8 (08h)	Color Temp.	06
V30	WPL	0-1	1 (01h)		01
V31	RGB CONTRAST	0-63 (00h-3Fh)	59 (3Bh)		3B
V34	VSM GAIN	0-3 (00h-03h)	1 (01h)		01
V36	BPF/TOF-INPUT	0-1	0 (00h)	External Input	00
V37	CORING	0-1	0 (00h)		00
V38	VSM PHASE	0-1	0 (00h)		00
V39	COLOR γ	0-1	0 (00h)		00
V40	SHARP-INPUT	0-63 (00h-3Fh)	44 (2Ch)	External Input	2C
V41	TINT-INPUT	0-127 (00h-7Fh)	62 (3Eh)	External Input	3E
V42	PICTURE-COMPONENT	0-15 (00h-0Fh)	6 (06h)	Component Input	
V43	TINT-COMPONENT	0-127 (00h-7Fh)	62 (3Eh)	Component Input	3E
V44	COLOR-COMPONENT	0-127 (00h-7Fh)	72 (48h)	Component Input	48
V45	BRIGHT-COMPONENT	0-127 (00h-7Fh)	84 (54h)	Component Input	
V46	R CUT OFF-COMPONENT	64-255 (00h-FFh)	64 (40h)	Component Input	
V47	G CUT OFF-COMPONENT	64-255 (00h-FFh)	64 (40h)	Component Input	
V48	B CUT OFF-COMPONENT	64-255 (00h-FFh)	64 (40h)	Component Input	
V49	G/R DRIVE-COMPONENT	0-127 (00h-7Fh)	64 (40h)	Component Input	
V50	B DRIVE-COMPONENT	0-127 (00h-7Fh)	64 (40h)	Component Input	
V51	SHARP-COMPONENT	0-63 (00h-3Fh)	44 (2Ch)	Component Input	2C
V52	TINT-S	0-127 (00h-7Fh)	62 (3Eh)	Component Input	3E
V53	C-TRAP	0-1 (00h-01h)	0 (00h)		00
V59	AUTO FRESH	0-1 (00h-01h)	0 (00h)		00
V60	SHARP P F	0-1 (00h-01h)	1 (01h)		01
V61	CD MATRIX	0-3 (00h-03h)	2 (02h)		02
V62	B-Y ATT	0-1 (00h-01h)	0 (00h)		00
V63	R-Y ATT	0-1 (00h-01h)	0 (00h)		00
V64	CD MATRIX COMPONENT	0-3 (00h-03h)	0 (00h)	Component Input	00
V65	B-Y ATT-COMPONENT	0-1 (00h-01h)	0 (00h)	Component Input	00
V66	R-Y ATT-COMPONENT	0-1 (00h-01h)	0 (00h)	Component Input	00
V67	BUZZ	0-1 (00h-01h)	1 (01h)		01
V68	RGB ABCL	0-1 (00h-01h)	1 (01h)		01
V69	PICTURE-VCOMP	0-100 (00h-64h)	47 (2Fh)	16:9 Format (Offset)	2F
V70	COLOR-VCOMP	0-100 (00h-64h)	50 (32h)	16:9 Format (Offset)	32
V71	BRIGHT-VCOMP	0-100 (00h-64h)	51 (33h)	16:9 Format (Offset)	33
R01	RF-AGC	0-63 (00h-3Fh)	36 (24h)		
R03	RF-AGC REF	0-255 (00h-FFh)	170 (AAh)	Standard value for the self-adjustment	AA
D01	V POSITION	0-7 (00h-07h)	0 (00h)		00
D02	H POSITION	0-31 (00h-1Fh)	15 (0Fh)		
D03	V SIZE	0-127 (00h-7Fh)	89 (59h)		
D04	H SIZE	0-63 (00h-3Fh)	36 (24h)		
D05	V-LINEARITY	0-15 (00h-0Fh)	8 (08h)		
D06	V-S CORRECTION	0-15 (00h-0Fh)	12 (0Ch)		0C
D07	EW PARABOLA	0-63 (00h-3Fh)	43 (2Bh)		
D08	EW TRAPEZIUM	0-63 (00h-3Fh)	36 (24h)		
D10	AFC GAIN	0-3 (00h-03h)	2 (02h)		02
D11	V EHT	0-7 (00h-07h)	6 (06h)		06
D12	H EHT	0-7 (00h-07h)	6 (06h)		06
D13	EW CORNER	0-31 (00h-1Fh)	8(08h)		08

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
D14	EW CORNER BOTTOM	19-81 (13h-51h)	50 (32h)	Offset toward D13.	32
D15	NOISE DET LEVEL	0-3 (00h-03h)	0 (00h)		00
D18	V CENTERING	0-63 (00-3Fh)	36 (24h)		
D19	V-AGC	0-1 (00h-01h)	0 (00h)		00

B. SPECIAL SETTING

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
EX1	FAO VOLUME	0-50 (00h-32h)	36 (24h)	Interrupt period adjustment.	24
EX2	CC-POSITION	0-127 (00h-7Fh)	27 (1Bh)		1C
EX3	INT	0-255 (00h-FFh)	122 (7Ah)		7A
EX4	A-ATT	0-127 (00h-7Fh)	90 (5Ah)		5A
EX5	TUNER data	0-3 (00h-03h)	0 (00h)		00
EX6	Think chip-Slice LEVEL	0-255 (00h-FFh)	54 (36h)		12
EX7	RLY DELAY TIME	0-255 (00h-FFh)	0 (00h)	For the power control	00
EX8	ADG ON TIME	0-255 (00h-FFh)	10 (0Ah)	For the power control	0A

C. OPTION SETTING

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
OP1	OPTION1	0-255 (00h-FFh)	245 (F5h)		F5
OP2	OPTION2	0-255 (00h-FFh)	188 (BC h)		BC
OP3	OPTION3	0-255 (00h-FFh)	15 (0Fh)		0F

D. SOUND ADJUSTMENT

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
M01	INPUT LEVEL	0-15 (00h-0Fh)	7 (07h)		
M02	MTS VCO	0-63 (00h-3Fh)	38 (26h)		
M03	FILTER	0-63 (00h-3Fh)	36 (24h)		
M04	WIDEBAND	0-63 (00h-3Fh)	28 (1Ch)		
M05	SPECTRAL	0-63 (00h-3Fh)	23 (17h)		
M09	SRS LEVEL	0-255 (00h-FFh)	224 (E0h)		E0
M10	BBE LEVEL	0-255 (00h-FFh)	217 (D9h)		D9
M11	SRS&BBE LEVEL	0-255 (00h-FFh)	208 (D0h)		D0
M12	SRS&BBE OFF LEVEL	0-255 (00h-FFh)	228 (E4h)		E4
M13	SRS Effect	2-3 (02h-03h)	2 (02h)		02
M14	BBE-L Effect	0-15 (00h-0Fh)	15 (0Fh)		0F
M15	BBE-H Effect	0-15 (00h-0Fh)	15 (0Fh)		0F
M16	AGC Level	0-7 (00h-07h)	1 (01h)		01
M17	BASS Offset	0-31 (00h-1Fh)	15 (0Fh)		0F
M18	TREBLE Offset	0-31 (00h-1Fh)	15 (0Fh)		0F
M19	BASS Offset-BBE	0-31 (00h-1Fh)	17 (11h)		11
M20	TREBLE Offset-BBE	0-31 (00h-1Fh)	16 (10h)		10

Holding down both the VOL-up and CH-up buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		X	Data is stored in IC2101.
IC201	X		The adjustment is needed to compensate for characteristics of parts including IC201 and MTS level (M01).
IC2101	X		Holding down both the VOL-up and CH-up buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2101 Then perform a complete adjustment.
CRT	X		Adjust items related to picture tube only.
IC3001	X		Adjust items related to MTS only (M01~M20).
IC1801	X		Adjust items related to P-IN-P only (P01~P08).

SERVICE ADJUSTMENT

RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "R01".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

Note 1 : You will have to come out of the service mode to select another channel.

Note 2 : Setting the data to "00" will produce a black raster.

Screen Adjustment

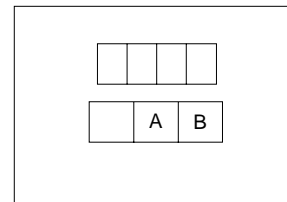
1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "V03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
3. Select the service adjustment "V11" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
4. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
5. Adjust the service adjustments "V06" red, "V07" green and "V08" blue to obtain a good grey scale with normal whites at low brightness level.
6. Select the service adjustment "V11" and reset data to "00". Select the service adjustment "V03" and reset data to obtain normal color level.
7. For component input, the data value of "V46" red, "V47" green and "V48" blue is adjusted to follow the data value of "V06", "V07" and "V08" respectively.
8. Reset the master screen control to obtain normal brightness range.

White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set to "00" (minimum color)(Record original data code under adjustment "V03" before changing). "V03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service adjustment data of "V09" and "V10" until a good grey scale with normal whites is obtained. (RF Input)
4. For component input, the data value of "V49" and "V50" is adjusted to follow the data value of "V09" and "V10" respectively.
5. Select the service adjustment "V03" and reset data to obtain normal color level.

Sub-picture and Sub-Bright Adjustments

1. Receive the window pattern signal.
 - RF INPUT (TU51)
2. Get into service adjustment data "V01" and "V05" and set the luminance as shown in figure "A" and "B" as below respectively.
 - COMPONENT INPUT
3. Get in service adjustment data "V42" and "V45" and set the luminance as shown in figure "A" and "B" as below respectively.

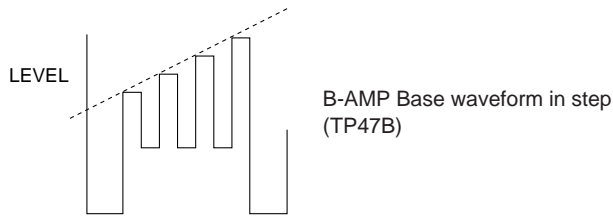


LUMINESCENCE CONFIRMATION

- A: $120 \pm 10 \text{cd/m}^2$
- B: $1.5 \pm 0.5 \text{cd/m}^2$

Sub-Tint Adjustment

1. Receive the half color bar signal.
 - RF INPUT (TU51)
2. Get into Y-Mute by R/C, or by setting the "V11" bus data to "01".
3. Vary the "V02" bus data until the waveform becomes as stated below.



Sub-Color Adjustment

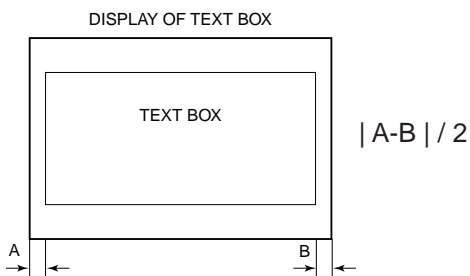
1. Receive a good local channel.
2. Make sure the customer color control is set to center position.
- RF INPUT (TU51)
3. Enter the service mode and select service adjustment "V03".
4. Adjust "V03" data value to obtain a normal color level.

Focus Adjustment

1. Receive a good local channel.
2. Adjust the FOCUS VR of the flyback transformer to make the image as fine as possible.

C. C Display Position Adjustment

1. Receive the lion head pattern signal.
2. Select "EX2" to display the text box.
3. Adjust the "EX2" bus data to let the text box displayed in the center.



SPEC INSPECTION: $| A-B | / 2 \leq 5\text{mm}$

Vertical-Size and Linearity Adjustments

1. Receive a good local channel. (SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D03" for V-size.
3. Adjust the "D03" bus data to get the proper V-size.
4. For V-linearity adjustment, select data bus "D05" and adjust to get the proper vertical linearity. (SCREEN FORMAT 16:9)
5. Input data of "D22" to mines 38 step from "D03" data. (V-SIZE)
6. Input data of "D24" same as "D05" data. (V-LIN)

Note: Aging for 10 min before adjustment. After the adjustment of V-center and V-size, re-adjustment for this V-line.

Vertical Phase Adjustment

- (SCREEN FORMAT 4:3)
1. Enter the service mode and input data of "00h" on "D01".
 2. Adjust "D18" data value so that picture is centered. (SCREEN FORMAT 16:9)
 3. Input data of "00h" on "D20".
 4. Input data of "D34" same as "D18" data.

Horizontal Position Adjustment

1. Receive a good local channel. (SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D02".
3. Adjust "D02" data value so that picture is centered. (SCREEN FORMAT 16:9)
4. Input data of "D21" same as "D02" data.

Horizontal-Size Adjustment

1. Receive a good local channel. (SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D04" for H-size.
3. Adjust the "D04" bus data to get the proper H-size. (SCREEN FORMAT 16:9)
4. Input data of "D23" same as "D04" data.

EW-Parabola

1. Receive a good local channel. (SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D07" for EW parabola.
3. Adjust the "D07" bus data to get the proper vertical straight line for both left and right side. (SCREEN FORMAT 16:9)
4. Input data of "D26" to mines 21 step from "D07" data.

EW-Trapezium

1. Receive a good local channel. (SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D08" for EW-Trapezium.
3. Adjust the "D08" bus data to get the best position display. (SCREEN FORMAT 16:9)
4. Input data of "D27" same as "D08" data.

■ MTS ADJUSTMENT

MTS Level Adjustment

1. Set the sound volume above 1.
Monoral signal: 400Hz, 100% modulation
2. Confirm "EX4" data is "5Ah".
3. Vary the "M01" bus data until the voltage to pin (39) of IC3001 to become the value as stated below.

SETTING VOLTAGE

ADJ spec : 490 ± 10 mVrms

CHK spec: 490 ± 20 mVrms

MTS VCO Adjustment

1. Keep the unit in no-signal state.
2. Connect the frequency counter to pin (39) of IC3001.
3. Connect a capacitor (100 μ F, 50V) in between positive(+) side of C3005 and ground.
4. Enter the service mode and select the service adjustment "M02"
5. Adjust the data so that the frequency counter reads 62.94 ± 0.75 kHz.

Filter Adjustment

1. Feed the following stereo pilot signal to pin (14) of IC3001 at C3005 open.
Stereo pilot signal: 9.4kHz, 600mVrms.
2. Enter the service mode and select the service adjustment "M03".
3. Adjust the data until "OK" appears in position on the screen. Make sure the "OK" is displayed almost at the center of the data range.

Separation Adjustment

1. Input "SIGNAL 1" and vary the "M04" bus data to get the minimum AC voltage to pin (39) of IC3001.
2. Input "SIGNAL 2" and vary the "M05" bus data to get the minimum AC voltage to pin (39) of IC3001.
SIGNAL 1: 300Hz, 30% modulation, Lch only, NR-ON
SIGNAL 2: 3kHz, 30% modulation, Lch only, NR-ON

Note: SIGNAL 1 Adj. for wideband

SIGNAL 2 Adj. for spectral

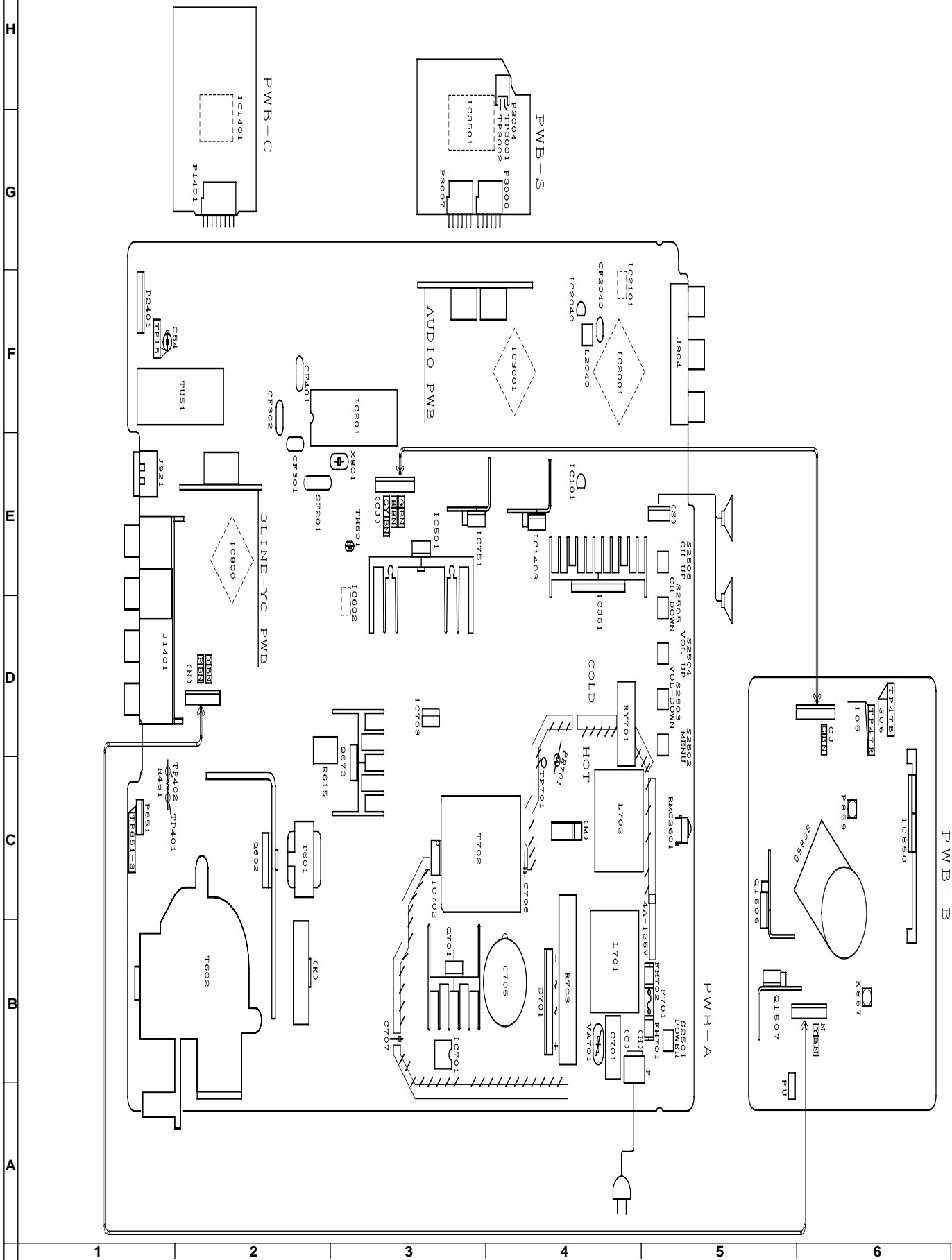
Check the output of the speaker at the maximum volume as stated below.

Confirmation spec:

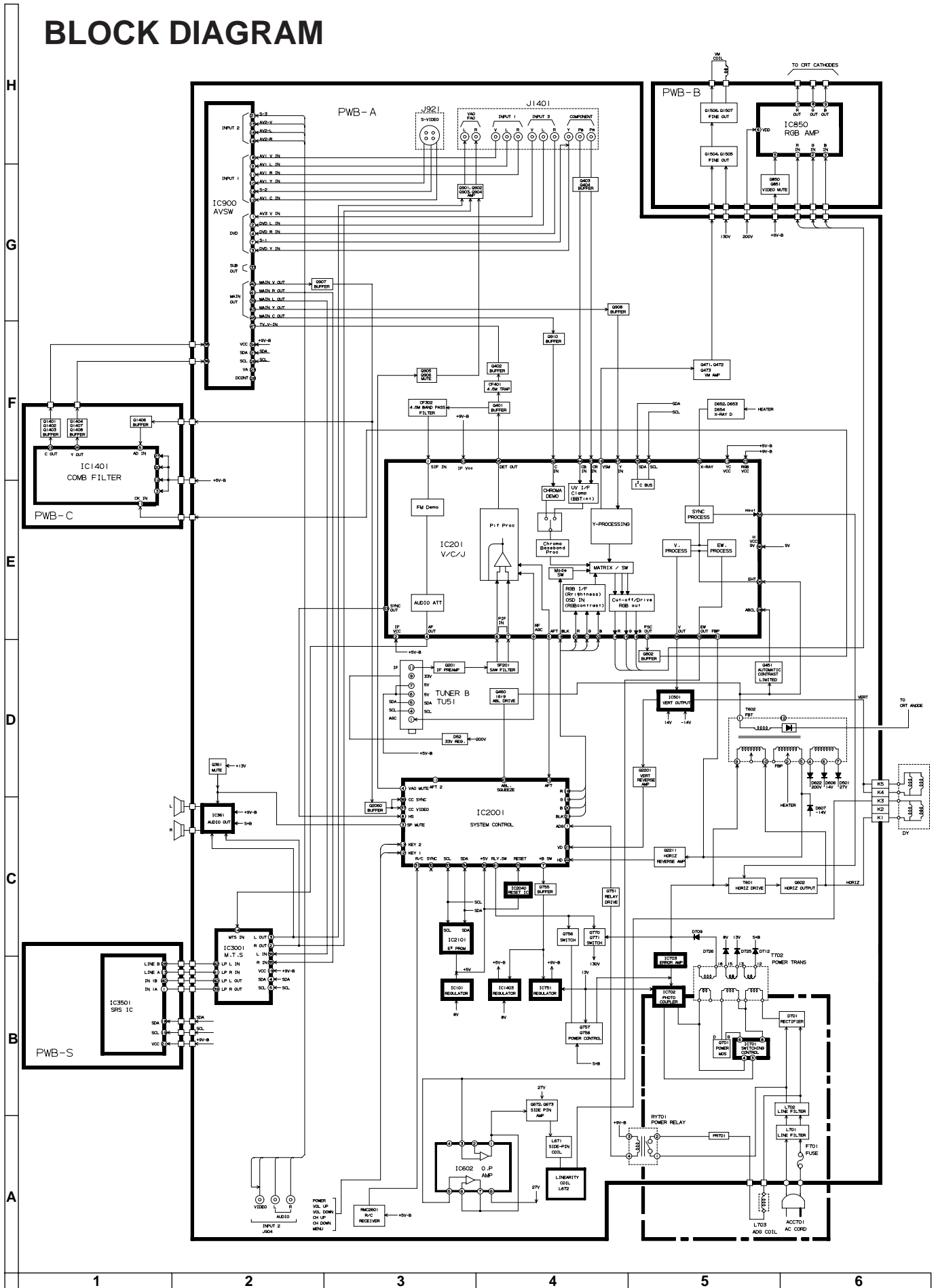
ADJ spec: above 25 dB

CHK spec: above 20 dB

CHASSIS LAYOUT



BLOCK DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

NOTES:

1. The unit of resistance "ohm" is omitted.
($K=k\Omega=1000\Omega$, $M=M\Omega$)
2. All resistors are 1/16 watt, unless otherwise noted.
3. All capacitors are μF , unless otherwise noted.
($P=pF=\mu\mu F$)
4. (G) indicates $\pm 2\%$ tolerance may be used.
5. \ddagger indicates line isolated ground.

WAVEFORM MEASUREMENT CONDITIONS:

1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2. \blacktriangleright indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

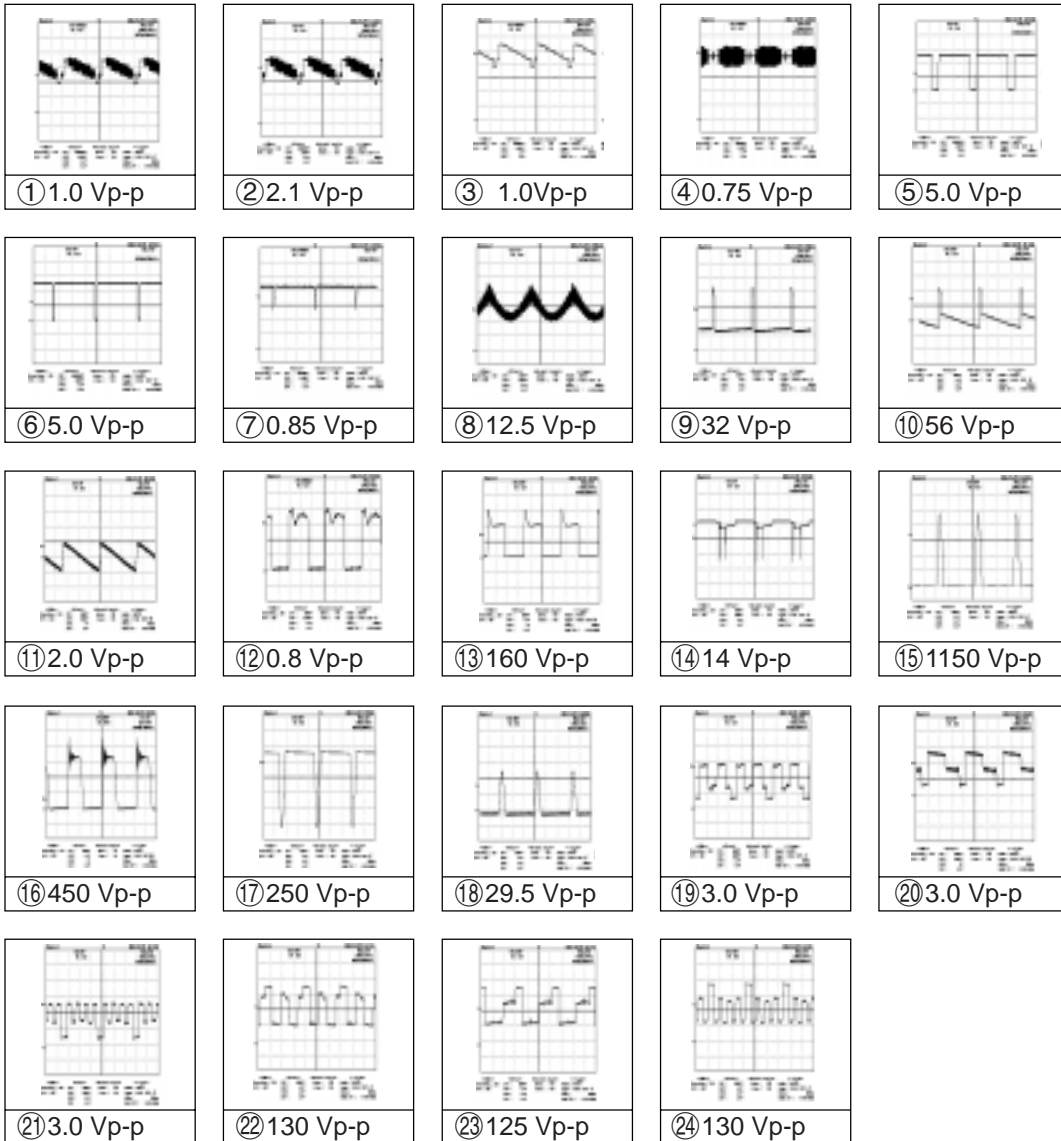
VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with 1000 μ V B & W or Color signal.

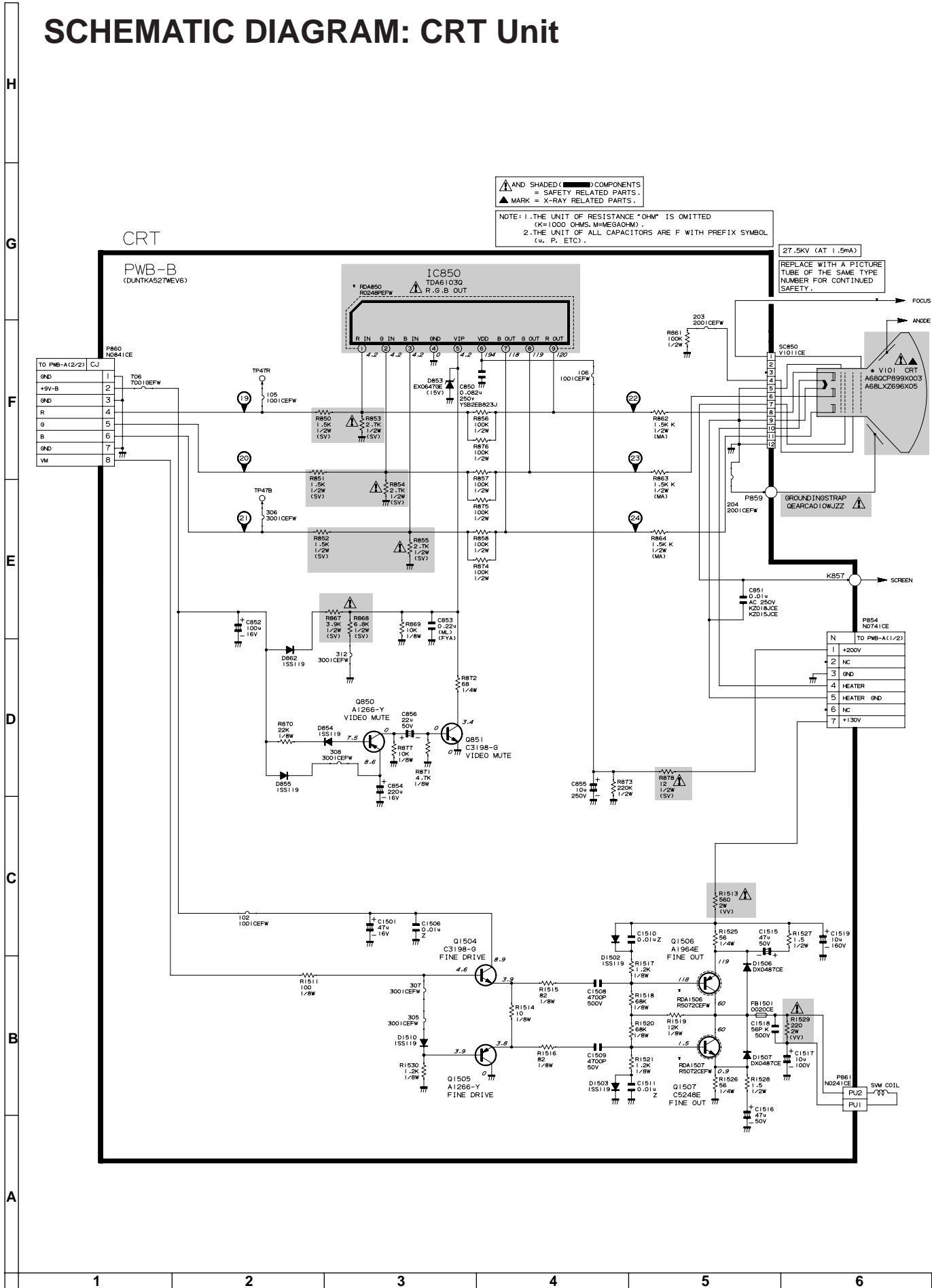
\triangle AND SHADED () COMPONENTS = SAFETY RELATED PARTS.
 \blacktriangle MARK= X-RAY RELATED PARTS.

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

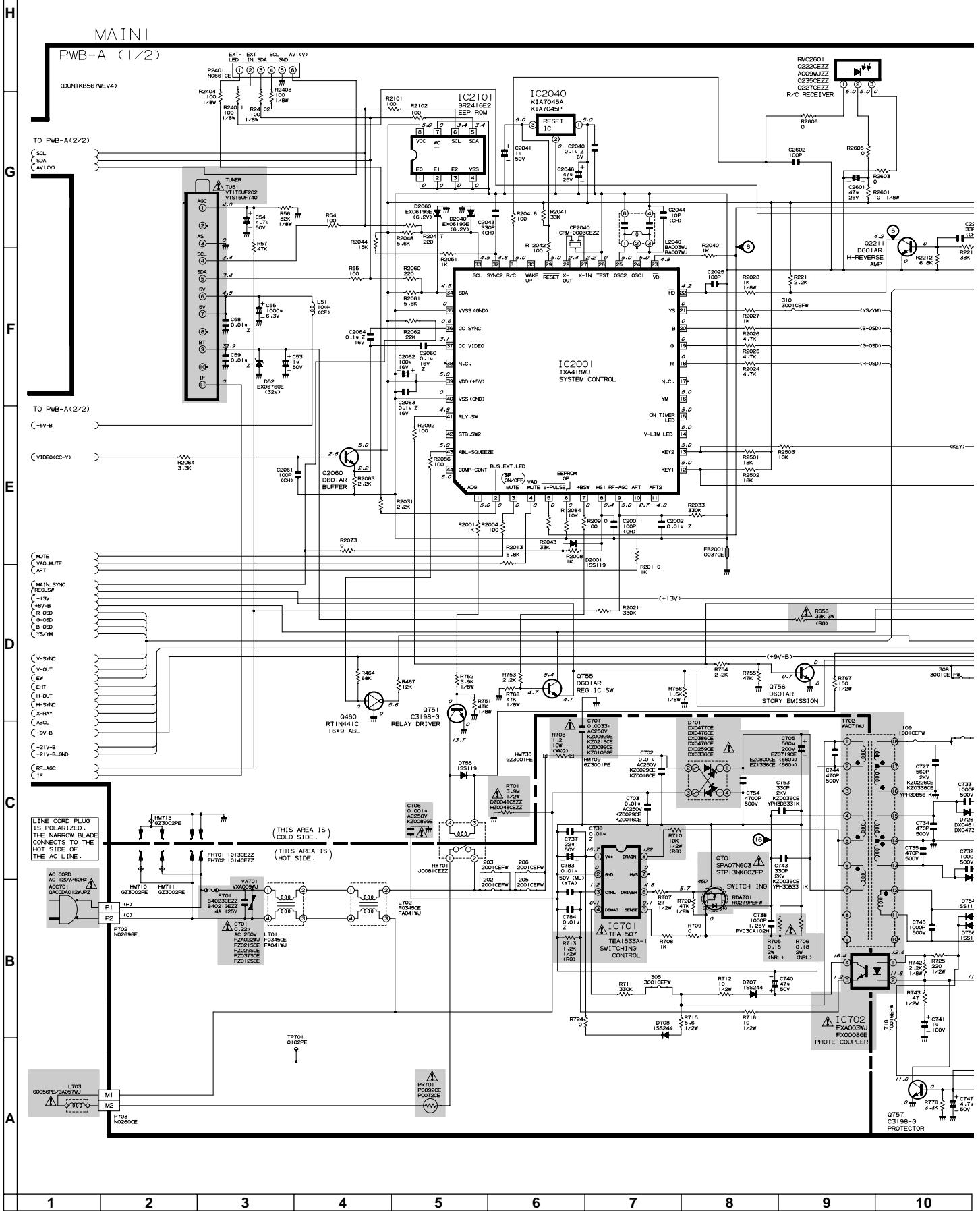
WAVEFORMS



SCHEMATIC DIAGRAM: CRT Unit

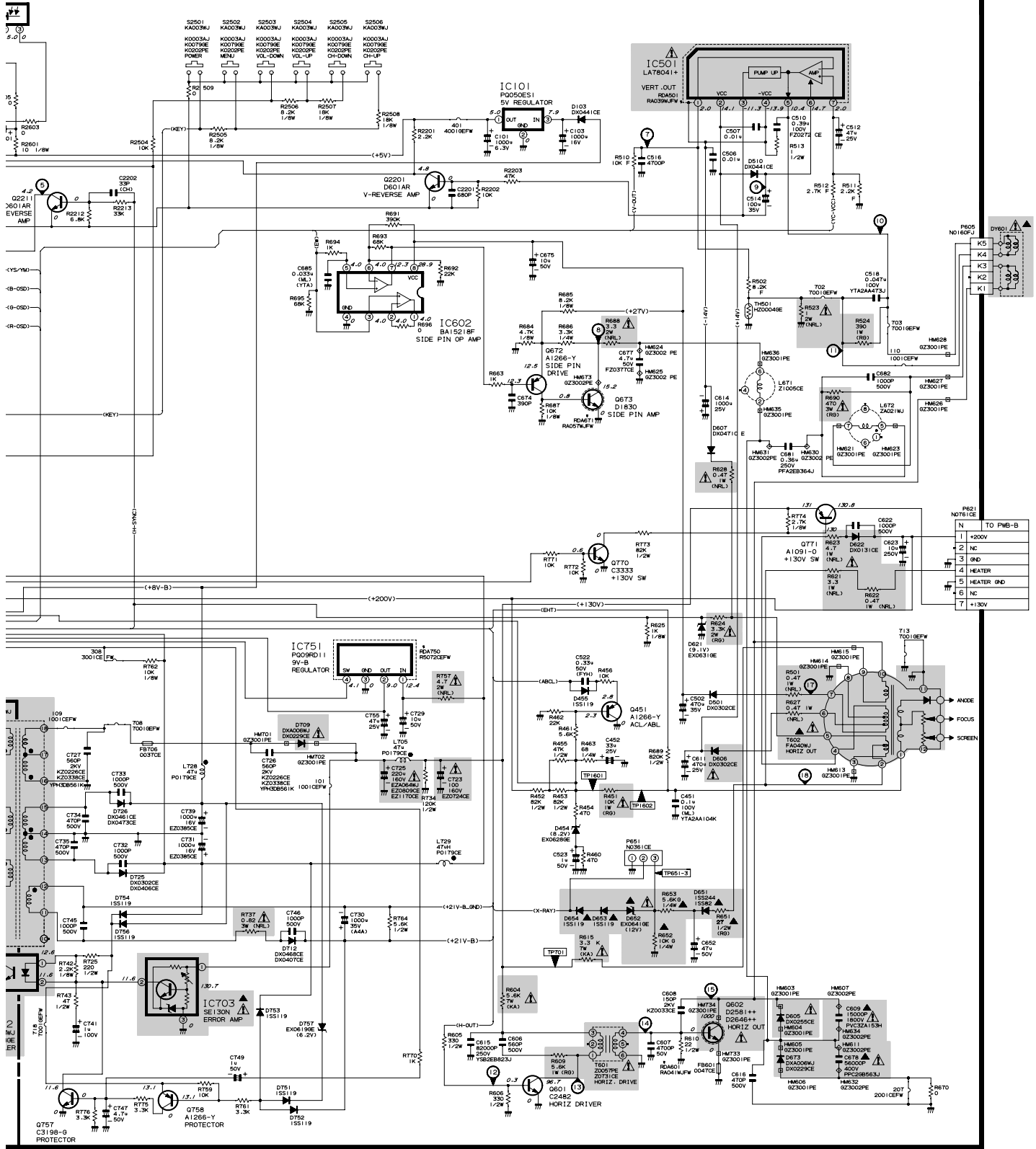


SCHEMATIC DIAGRAM: MAIN-1 Unit



NOTE 1: THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEG OHMS)
2. ALL RESISTORS ARE 1/8 WATT UNLESS OTHERWISE NOTED.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u. P. ETC.)

▲ AND SHADED () COMPONENTS
= SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.



10	11	12	13	14	15	16	17	18	19
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SCHEMATIC DIAGRAM: MAIN-2 Unit

H

G

F

E

D

C

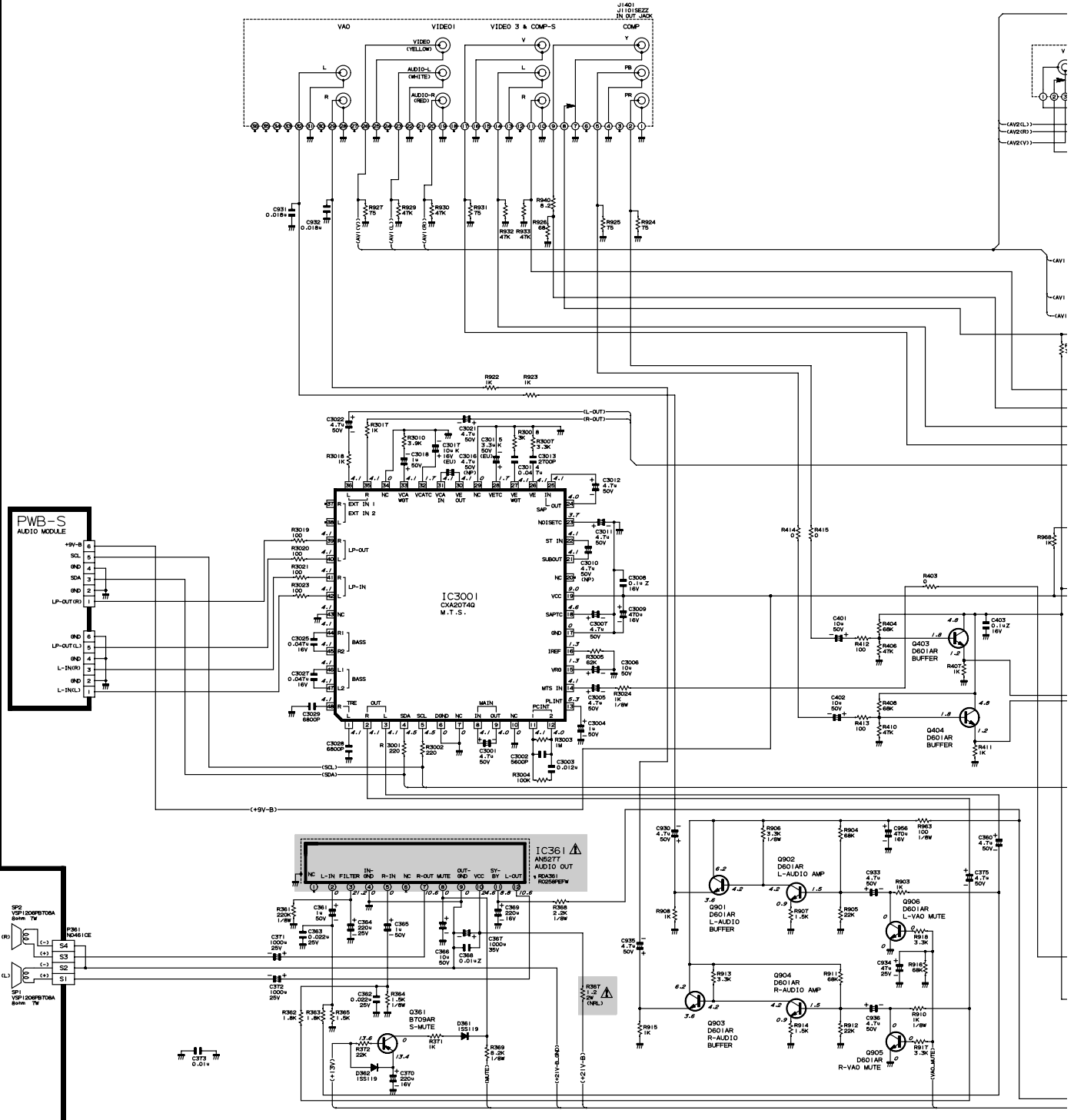
B

A

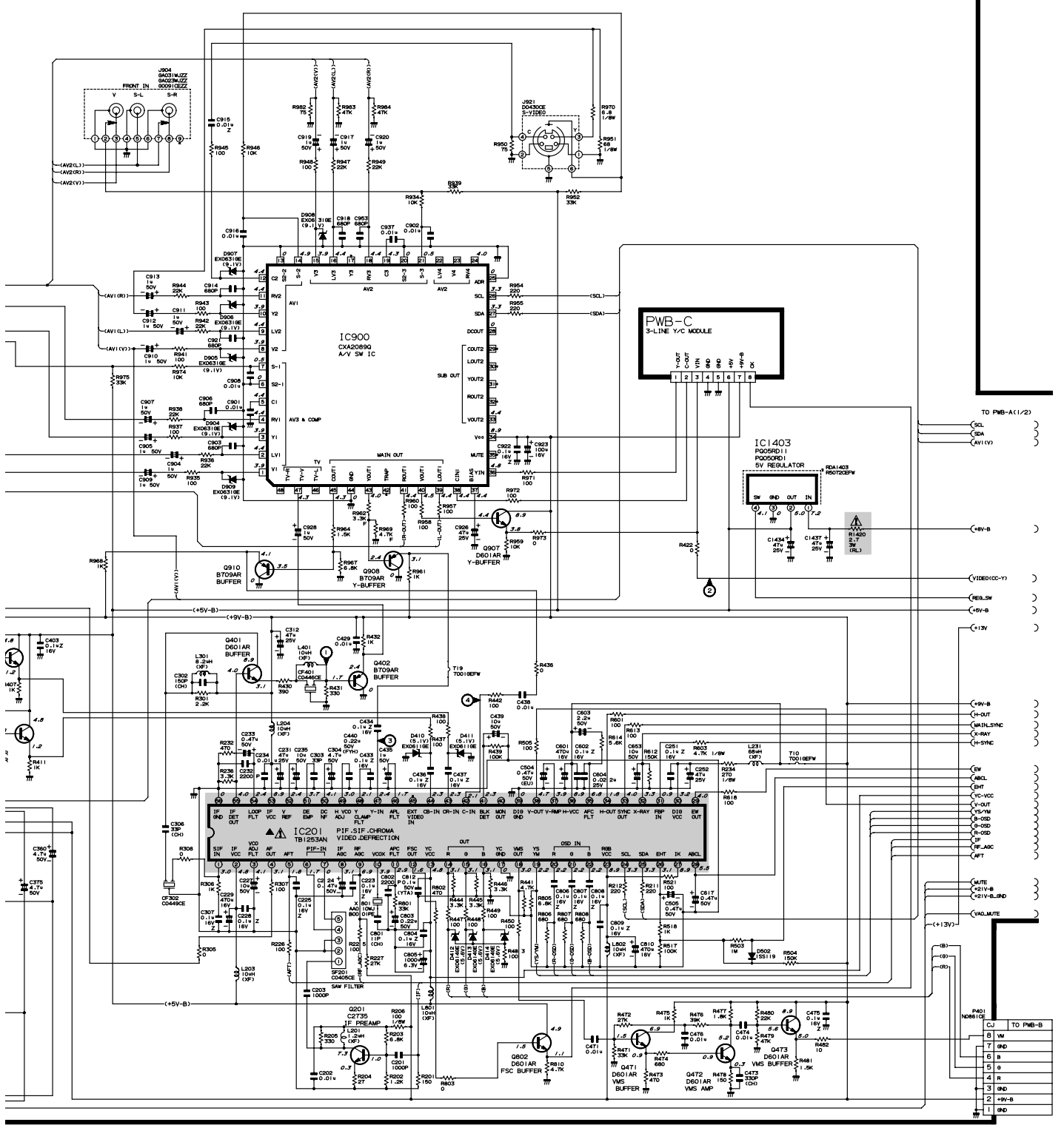
MAIN2

PWB-A (2/2)

(COUNT857MEV4)



NOTE 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHMS).
2. ALL RESISTORS ARE 1/16 WATT, UNLESS OTHERWISE NOTED.
3. UNIT OF ALL CAPACITORS ARE P WITH PREFIX SYMBOL (N, P, ETC.).

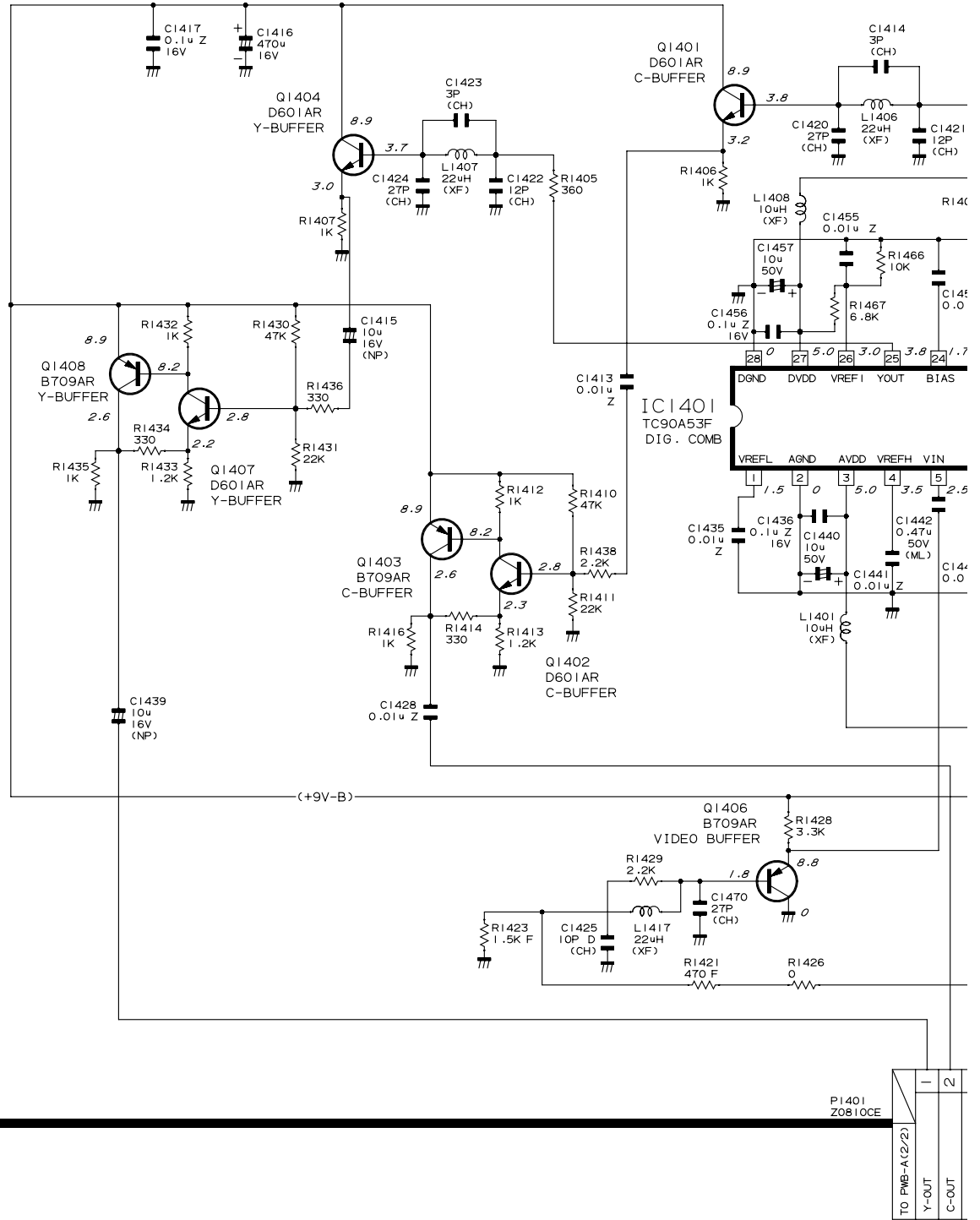


10	11	12	13	14	15	16	17	18	19
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SCHEMATIC DIAGRAM: 3-LINE Y/C Unit

3-LINE Y/C

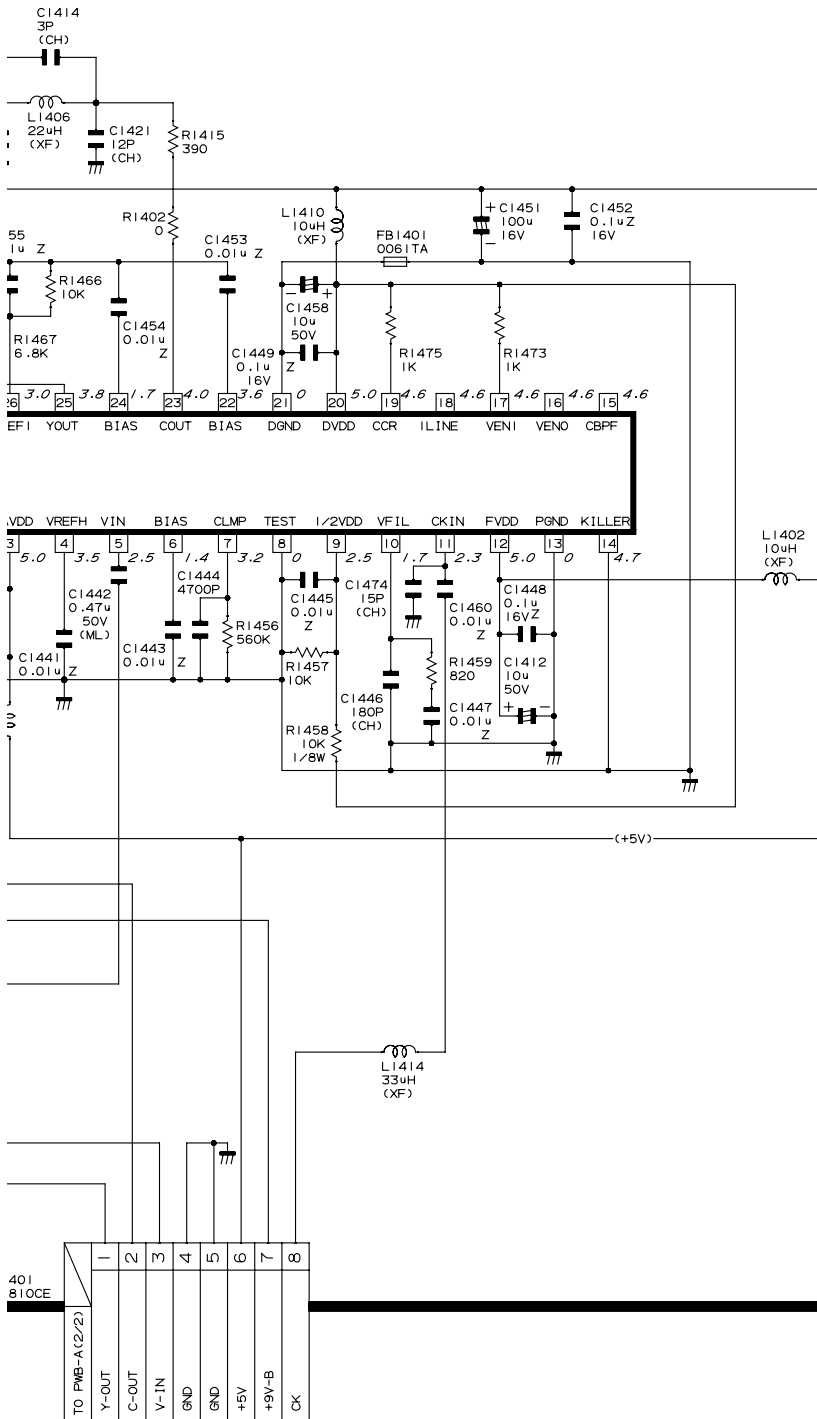
PWB-C
(DUNTKB573WEV0)



H
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D
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B
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1 2 3 4 5 6 7 8 9 10

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2. ALL RESISTORS ARE 1/16 WATT UNLESS OTHERWISE NOTED.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).



10	11	12	13	14	15	16	17	18	19
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SCHEMATIC DIAGRAM: AUDIO Unit

H

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F

E

D

C

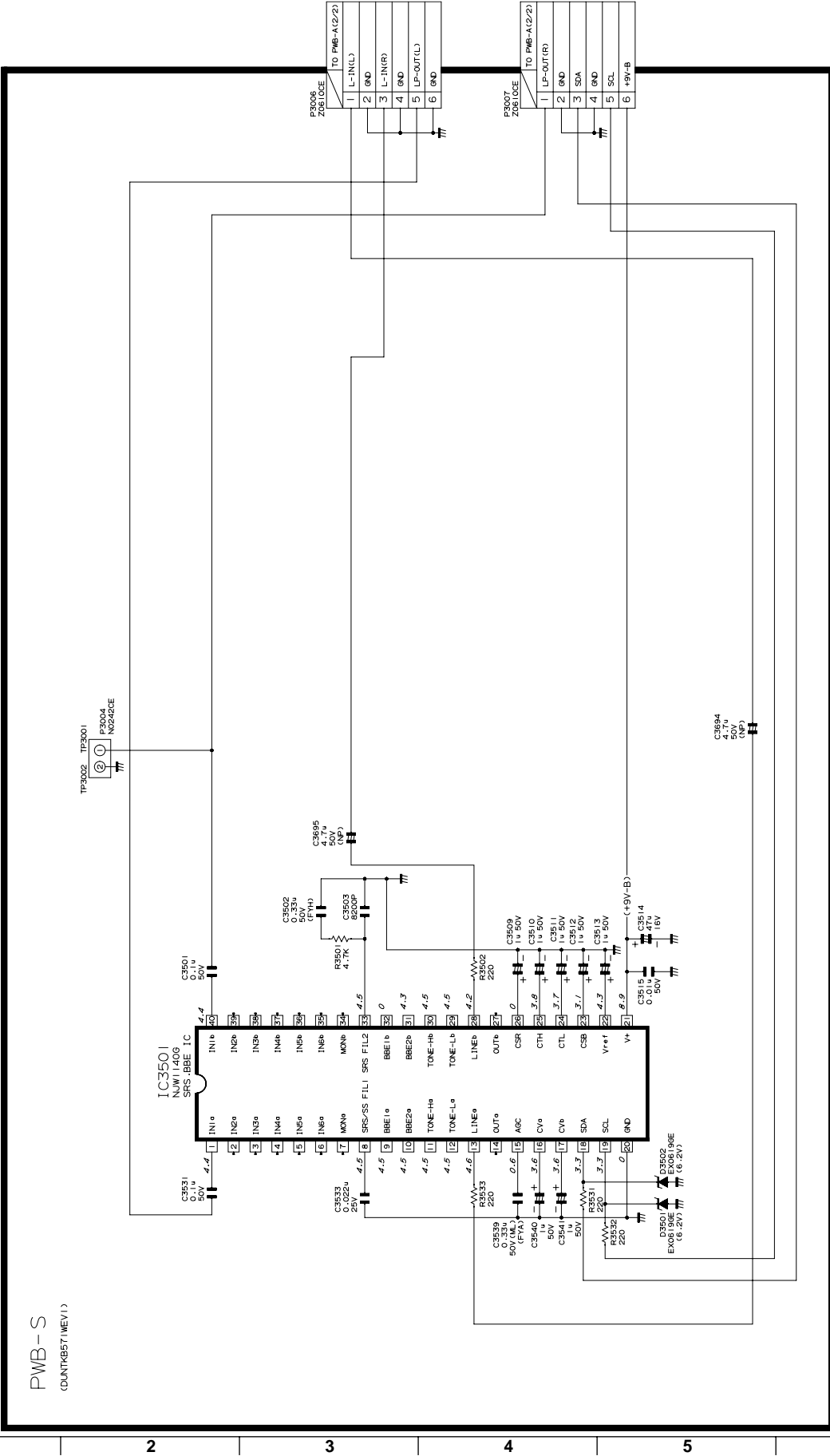
B

A

NOTE 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED.
2. ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE NOTED.
3. UNIT OF ALL CAPACITORS ARE IN PICO FARADS (u. P. ETC.).

AUDIO

PWB-S
(QUANTITY: 1 MEV1)



1

2

3

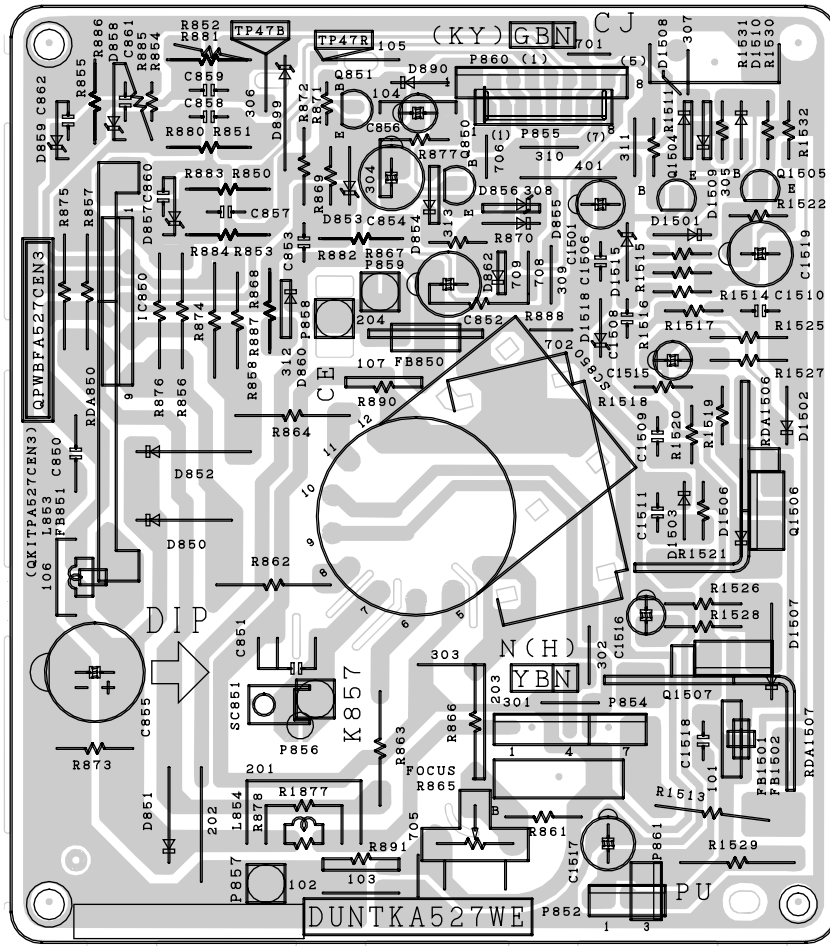
4

5

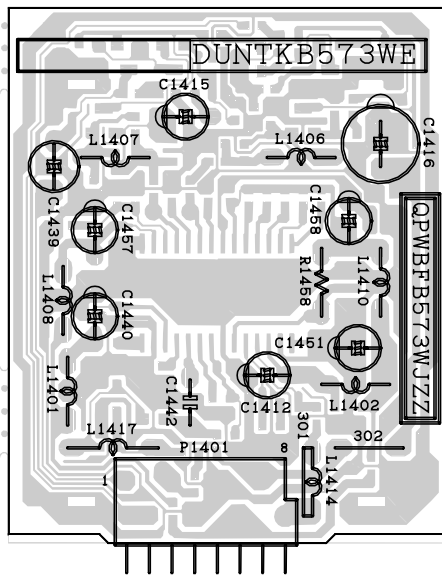
6

PRINTED WIRING BOARD ASSEMBLIES

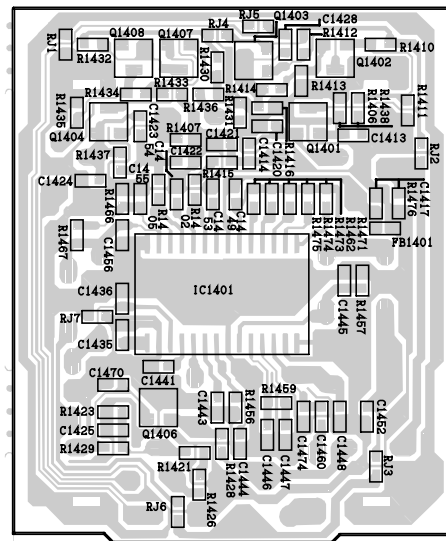
H
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PWB-B: CRT Unit (Wiring Side)

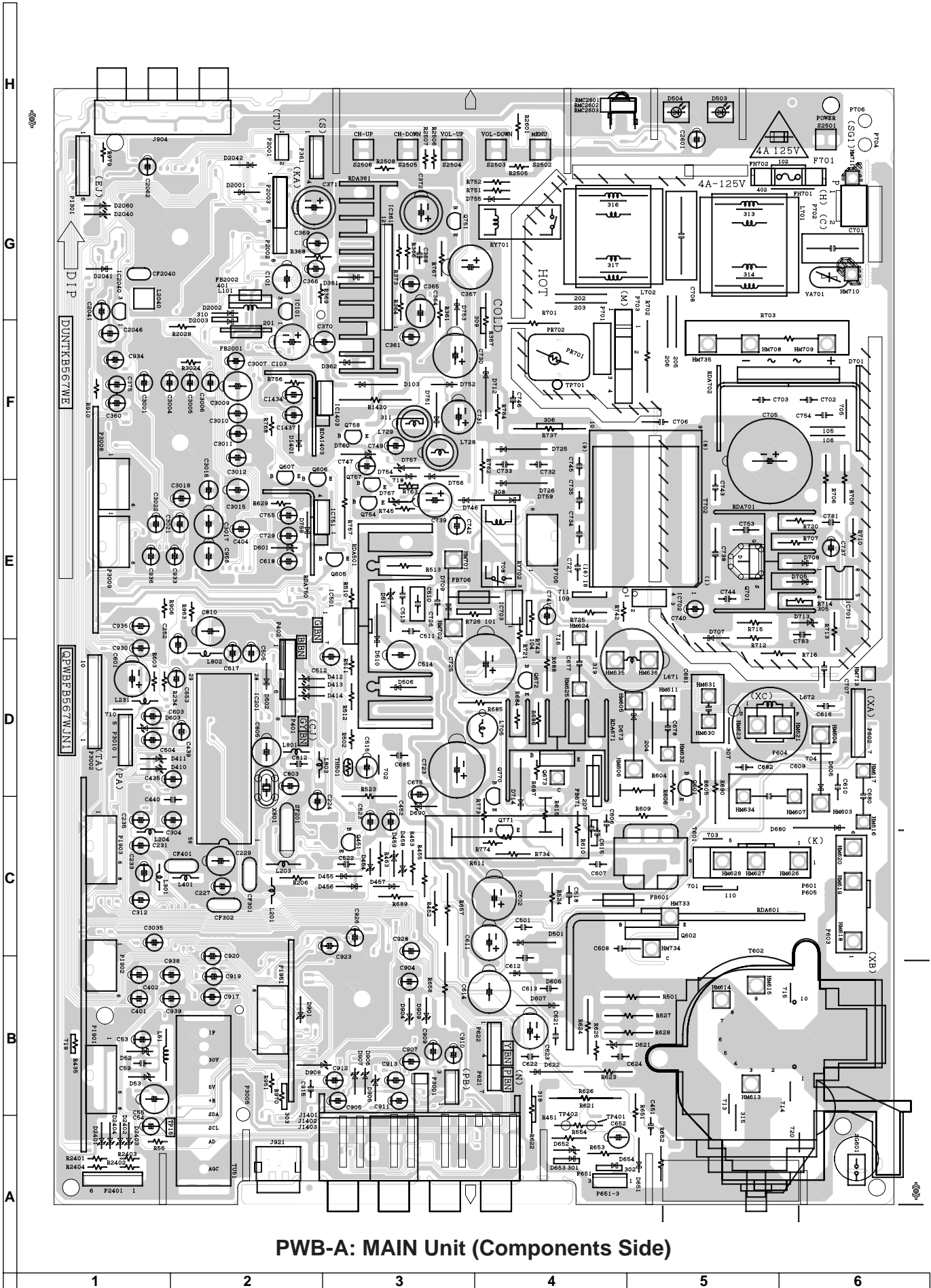


PWB-C: 3-LINE Y/C Unit (Wiring Side)

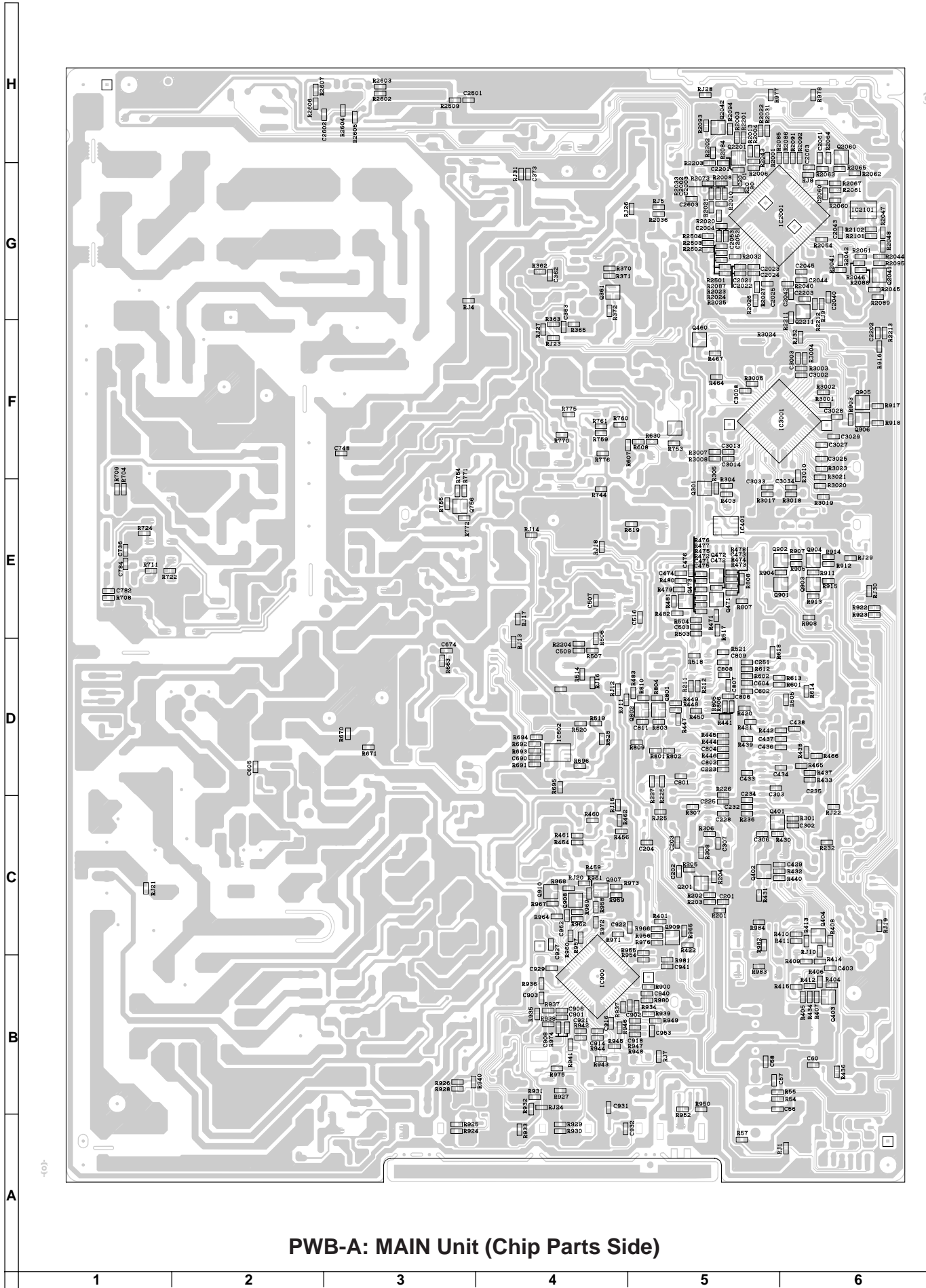


PWB-C: 3-LINE Y/C Unit (Chip Parts Side)

1 2 3 4 5 6

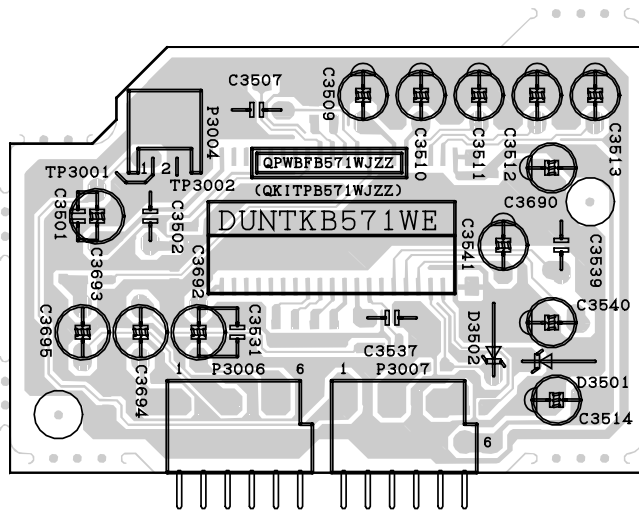


PWB-A: MAIN Unit (Components Side)

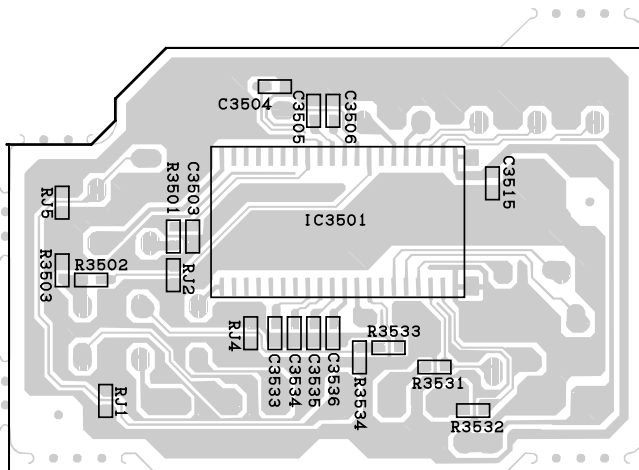


PWB-A: MAIN Unit (Chip Parts Side)

H
G
F
E
D
C
B
A



PWB-S: AUDIO Unit (Wiring Side)



PWB-S: AUDIO Unit (Chip Parts Side)

1 2 3 4 5 6

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual ; electrical components having such features are identified by Δ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

in **USA**: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★ MARK: SPARE PARTS-DELIVERY SECTION

▲ MARK: X-RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code
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PICTURE TUBE

▲ Δ V101	VB68LXZ696X1E	X	Picture Tube	CF
Δ L703	RCILG0056PEZZ	X	Degaussing Coil	AS
Δ	QEARCA010WJZZ	X	Grounding Strap	AD

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A DUNTKB567WEV4	-	MAIN Unit	—
PWB-B DUNTKA527WEV6	-	CRT Unit	—
PWB-C DUNTKA573WEV0	-	3-LINE Y/C Unit	—
PWB-S DUNTKB571WEV1	-	AUDIO Unit	—

Ref. No.	Part No.	★	Description	Code
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PWB-A: DUNTKB567WEV4 MAIN UNIT

TUNER

NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

▲ TU51	VTUVT1T5UF202	X	Tuner	AR
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INTEGRATED CIRCUITS

IC101	VHiPQ050ES1-1+	X	PQ050ES1MXP	AB
▲ Δ IC201	VHiTB1253AN-1	X	TB1253AN	AP
Δ IC361	VHiAN5277//1	X	AN5277	AG
Δ IC501	VHiLA78041+1	X	LA78041	AF
IC602	VHiBA15218F2E*	X	BA15218F	AB
Δ IC701	VHiTEA1507/-1	X	TEA1507P/N1	AE
Δ IC702	RH-FXA003WJZZ	X	PC123Y82	AB
▲ Δ IC703	VHiSE130N//1	X	SE130N	AF
IC751	VHiPQ09RD11-1	X	PQ09RD11	AD
IC900	VHiCXA2089Q-2Y	X	CXA2089Q	AK
IC1403	VHiPQ05RD11-1	X	PQ05RD11	AD
IC2001	RH-iXA418WJZZQ	X	I.C.	AN
IC2040	VHiKIA7045A-1+	X	KIA7045AP	AB
IC2101	VHiBR2416E2-1*	X	BR24C16F	AD
IC3001	VHiCXA2074Q-1*	X	CXA2074Q	AP

TRANSISTORS

Q201	VS2SC2735//1E*	X	2SC2735	AB
Q361	VS2SB709AR/-1*	X	2SB709AR	AA
Q401	VS2SD601AR/-1*	X	2SD601AR	AA
Q402	VS2SB709AR/-1*	X	2SB709AR	AA
Q403	VS2SD601AR/-1*	X	2SD601AR	AA
Q404	VS2SD601AR/-1*	X	2SD601AR	AA
Q451	VS2SA1266-Y-1+	X	2SA1266-Y	AB
Q460	VSRT1N441C/-1*	X	RT1N441C	AA
Q471	VS2SD601AR/-1*	X	2SD601AR	AA
Q472	VS2SD601AR/-1*	X	2SD601AR	AA
Q473	VS2SD601AR/-1*	X	2SD601AR	AA
Q601	VS2SC2482//1-1+	X	2SC2482	AB
▲ Q602	VS2SD2581++2E	X	2SD2581	AG
Q672	VS2SA1266-Y-1+	X	2SA1266	AB
Q673	VS2SD1830//1E	X	2SD1830	AD
▲ Q701	VSSPA07N603-1	X	SPA07N603	AG
Q751	VS2SC3198-G-1+	X	2SC3198-G	AB
Q755	VS2SD601AR/-1*	X	2SD601AR	AA
Q756	VS2SD601AR/-1*	X	2SD601AR	AA
Q757	VS2SC3198-G-1+	X	2SC3198-G	AB
Q758	VS2SA1266-Y-1+	X	2SA1266-Y	AB
Q770	VS2SC3333//1-1+	X	2SC3333	AB
Q771	VS2SA1091-O1A+	X	2SA1091-O1A	AC
Q802	VS2SD601AR/-1*	X	2SD601AR	AA
Q901	VS2SD601AR/-1*	X	2SD601AR	AA
Q902	VS2SD601AR/-1*	X	2SD601AR	AA
Q903	VS2SD601AR/-1*	X	2SD601AR	AA
Q904	VS2SD601AR/-1*	X	2SD601AR	AA
Q905	VS2SD601AR/-1*	X	2SD601AR	AA
Q906	VS2SD601AR/-1*	X	2SD601AR	AA
Q907	VS2SD601AR/-1*	X	2SD601AR	AA
Q908	VS2SB709AR/-1*	X	2SB709AR	AA
Q910	VS2SB709AR/-1*	X	2SB709AR	AA
Q2060	VS2SD601AR/-1*	X	2SD601AR	AA
Q2201	VS2SD601AR/-1*	X	2SD601AR	AA
Q2211	VS2SD601AR/-1*	X	2SD601AR	AA

DIODES

D52	RH-EX0676GEZZ*	X	Zener Diode, 32V	AB
D103	RH-DX0441CEZZ*	X	Diode	AA
D361	VHD1SS119//1*	X	1SS119	AA
D362	VHD1SS119//1*	X	1SS119	AA
D410	RH-EX0611GEZZ*	X	Zener Diode, 5.1V	AB
D411	RH-EX0611GEZZ*	X	Zener Diode, 5.1V	AB
D412	RH-EX0614GEZZ*	X	Zener Diode, 5.6V	AB
D413	RH-EX0614GEZZ*	X	Zener Diode, 5.6V	AB
D414	RH-EX0614GEZZ*	X	Zener Diode, 5.6V	AB
D454	RH-EX0628GEZZ*	X	Zener Diode, 8.2V	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A: DUNTKB567WEV4					CAPACITORS				
MAIN UNIT (Continued)									
D455	VHD1SS119//-1*	X	1SS119	AA	C53	VCEA0A1HW105M+X	1	50V Electrolytic	AA
D501	RH-DX0302CEZZ*	X	Diode	AB	C54	VCEA0A1HW475M+X	4.7	50V Electrolytic	AA
D502	VHD1SS119//-1*	X	1SS119	AA	C55	VCEA0A0JW108M+X	1000	6.3V Electrolytic	AB
D510	RH-DX0441CEZZ*	X	Diode	AA	C58	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
△ D605	RH-DX0255CEZZ	X	Diode	AD	C59	VCKYPA1HF103Z+	X	0.01 50V Ceramic	AA
△ D606	RH-DX0302CEZZ*	X	Diode	AB	C101	VCEA0A0JW108M+X	1000	6.3V Electrolytic	AB
D607	RH-DX0471CEZZ*	X	Diode	AB	C103	VCEA0A1CW108M+X	1000	16V Electrolytic	AB
D621	RH-EX0631GEZZ*	X	Zener Diode, 9.1V	AB	C201	VCKYCY1HB102K*	X	1000p 50V Ceramic	AA
△ D622	RH-DX0131CEZZ*	X	Diode	AB	C202	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
▲△ D651	VHD1SS244//-1*	X	1SS244	AA	C203	VCKYCY1HB102K*	X	1000p 50V Ceramic	AA
▲△ D652	RH-EX0641GEZZ*	X	Zener Diode, 12V	AB	C223	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
▲△ D653	VHD1SS119//-1*	X	1SS119	AA	C224	VCEA0A1HW474M+X	0.47	50V Electrolytic	AA
▲△ D654	VHD1SS119//-1*	X	1SS119	AA	C225	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
△ D673	RH-DXA006WJZZ	X	Diode	AB	C227	VCEA0A1HW106M+X	10	50V Electrolytic	AA
△ D701	RH-DX0477CEZZ	X	Diode	AE	C228	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
D707	VHD1SS244//-1*	X	1SS244	AA	C229	VCEA0A1CW477M+X	470	16V Electrolytic	AB
D708	VHD1SS244//-1*	X	1SS244	AA	C231	VCEA0A1EW476M+X	47	25V Electrolytic	AA
△ D709	RH-DXA006WJZZ	X	Diode	AB	C232	VCKYCY1HB222K*	X	2200p 50V Ceramic	AA
D712	RH-DX0468CEZZ	X	Diode	AB	C233	VCEA0A1HW474M+X	0.47	50V Electrolytic	AA
D725	RH-DX0302CEZZ*	X	Diode	AB	C234	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
D726	RH-DX0461CEZZ	X	Diode	AB	C235	VCEA0A1HW106M+X	10	50V Electrolytic	AA
D751	VHD1SS119//-1*	X	1SS119	AA	C251	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
D752	VHD1SS119//-1*	X	1SS119	AA	C252	VCEA0A1EW476M+X	47	25V Electrolytic	AA
D753	VHD1SS119//-1*	X	1SS119	AA	C302	VCCCCY1HH151J*	X	150p 50V Ceramic	AA
D754	VHD1SS119//-1*	X	1SS119	AA	C303	VCCCCY1HH330J*	X	33p 50V Ceramic	AA
D755	VHD1SS119//-1*	X	1SS119	AA	C304	VCEA0A1HW475M+X	4.7	50V Electrolytic	AA
D756	VHD1SS119//-1*	X	1SS119	AA	C306	VCCCCY1HH330J*	X	33p 50V Ceramic	AA
D757	RH-EX0619GEZZ*	X	Zener Diode, 6.2V	AB	C307	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
D904	RH-EX0631GEZZ*	X	Zener Diode, 9.1V	AB	C312	VCEA0A1EW476M+X	47	25V Electrolytic	AA
D905	RH-EX0631GEZZ*	X	Zener Diode, 9.1V	AB	C360	VCEA0A1HW475M+X	4.7	50V Electrolytic	AA
D906	RH-EX0631GEZZ*	X	Zener Diode, 9.1V	AB	C361	VCEA0A1HW105M+X	1	50V Electrolytic	AA
D907	RH-EX0631GEZZ*	X	Zener Diode, 9.1V	AB	C362	VCKYCY1EB223K*	X	0.022 25V Ceramic	AA
D908	RH-EX0631GEZZ*	X	Zener Diode, 9.1V	AB	C363	VCKYCY1EB223K*	X	0.022 25V Ceramic	AA
D909	RH-EX0631GEZZ*	X	Zener Diode, 9.1V	AB	C364	VCEA0A1EW227M+X	220	25V Electrolytic	AB
D2001	VHD1SS119//-1*	X	1SS119	AA	C365	VCEA0A1HW105M+X	1	50V Electrolytic	AA
D2040	RH-EX0619GEZZ*	X	Zener Diode, 6.2V	AB	C366	VCEA0A1HW106M+X	10	50V Electrolytic	AA
D2060	RH-EX0619GEZZ*	X	Zener Diode, 6.2V	AB	C367	VCEA0A1VW108M+X	1000	35V Electrolytic	AB
PACKAGED CIRCUITS					C368	VCKYPA1HF103Z+	X	0.01 50V Ceramic	AA
TH501	RH-HZ0004GEZZ+	X	Thermistor	AB	C369	VCEA0A1CW227M+X	220	16V Electrolytic	AB
△ VA701	RH-VXA009WJZZ	X	Varistor	AB	C370	VCEA0A1CW227M+X	220	16V Electrolytic	AB
△ PR701	RMPTP0092CEZZ	X	Packaged Circuit	AD	C371	VCEA0A1EW108M+X	1000	25V Electrolytic	AB
X801	RCR5AA010WJZZ	X	Crystal	AC	C372	VCEA0A1EW108M+X	1000	25V Electrolytic	AB
FILTERS AND COILS					C373	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
CF302	RFILC0449CEZZ+	X	Filter	AB	C375	VCEA0A1HW475M+X	4.7	50V Electrolytic	AA
CF401	RFILC0446CEZZ+	X	Filter	AB	C401	VCEA0A1HW106M+X	10	50V Electrolytic	AA
L51	VP-CF100K0000*	X	Peaking 10μH	AB	C402	VCEA0A1HW106M+X	10	50V Electrolytic	AA
L201	VP-XF1R2K0000*	X	Peaking 1.2μH	AA	C403	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
L203	VP-XF100K0000*	X	Peaking 10μH	AA	C429	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
L204	VP-XF100K0000*	X	Peaking 10μH	AA	C433	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
L231	VP-XF680K0000*	X	Peaking 68μH	AA	C434	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
L301	VP-XF8R2K0000*	X	Peaking 8.2μH	AA	C435	VCEA0A1HW105M+X	1	50V Electrolytic	AA
L401	VP-XF100K0000*	X	Peaking 10μH	AA	C436	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
L671	RCILZ1005CEZZ	X	Coil	AD	C437	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
L672	RCILZA021WJZZ	X	Coil	AD	C438	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
L701	RCILF0345CEZZ	X	Coil	AD	C439	VCEA0A1HW106M+X	10	50V Electrolytic	AA
L702	RCILF0345CEZZ	X	Coil	AD	C440	VCFYFA1HA224J+	X	0.22 50V Mylar	AB
L705	RCILP0179CEZZ+	X	Coil, 47μF	AB	C451	VCQYTA2AA104K+	X	0.1 100V Mylar	AB
L728	RCILP0179CEZZ+	X	Coil, 47μF	AB	C452	VCEA0A1EW336M+X	33	25V Electrolytic	AA
L729	RCILP0179CEZZ+	X	Coil, 47μF	AB	C471	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
L801	VP-XF100K0000*	X	Peaking 10μH	AA	C473	VCCCCY1HH331J*	X	330p 50V Ceramic	AA
L802	VP-XF100K0000*	X	Peaking 10μH	AA	C474	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
L2040	RCILBA003WJZZ	X	OSCILLATION COIL	AB	C475	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
SF201	RFILC0405CEZZ	X	Filter	AD	C476	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
TRANSFORMERS					C502	VCEA0A1VW477M+X	470	35V Electrolytic	AB
△ T601	RTRNZ0057PEZZ	X	Transformer	AD	C504	VCEACA1HC474M+X	0.47	50V Electrolytic	AB
▲△ T602	RTRNFA040WJZZ	X	H-Volt Transformer	AU	C505	VCEA0A1HW474M+X	0.47	50V Electrolytic	AA
△ T702	RTRNWA071WJZZ	X	Transformer	AG	C506	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
					C507	VCKYCY1HB103K*	X	0.01 50V Ceramic	AA
					C510	RC-FZ0272CEZZ+	X	0.39 100V Mylar	AB
					C512	VCEA0A1EW476M+X	47	25V Electrolytic	AA
					C514	VCEA0A1VW107M+X	100	35V Electrolytic	AB
					C516	VCKYCY1HB472K*	X	4700p 50V Ceramic	AA
					C518	VCQYTA2AA473J+	X	0.047 100V Mylar	AB
					C522	VCFYFA1HA334J+	X	0.33 50V Mylar	AB
					C523	VCEA0A1HW105M+X	1	50V Electrolytic	AA

Ref. No. Part No. ★ Description Code

**PWB-A: DUNTKB567WEV4
MAIN UNIT (Continued)**

R2064	VRS-CY1JF332J*	X	3.3k	1/16W	Metal Oxide	AA
R2073	VRS-CY1JF000J*	X	0	1/16W	Metal Oxide	AA
R2084	VRS-CY1JF103J*	X	10k	1/16W	Metal Oxide	AA
R2086	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R2090	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R2092	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R2101	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R2102	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R2201	VRS-CY1JF222J*	X	2.2k	1/16W	Metal Oxide	AA
R2202	VRS-CY1JF103J*	X	10k	1/16W	Metal Oxide	AA
R2203	VRS-CY1JF473J*	X	47k	1/16W	Metal Oxide	AA
R2211	VRS-CY1JF222J*	X	2.2k	1/16W	Metal Oxide	AA
R2212	VRS-CY1JF682J*	X	6.8k	1/16W	Metal Oxide	AA
R2213	VRS-CY1JF333J*	X	33k	1/16W	Metal Oxide	AA
R2401	VRD-RA2BE101J*	X	100	1/8W	Carbon	AA
R2402	VRD-RA2BE101J*	X	100	1/8W	Carbon	AA
R2403	VRD-RA2BE101J*	X	100	1/8W	Carbon	AA
R2404	VRD-RA2BE101J*	X	100	1/8W	Carbon	AA
R2501	VRS-CY1JF183J*	X	18k	1/16W	Metal Oxide	AA
R2502	VRS-CY1JF183J*	X	18k	1/16W	Metal Oxide	AA
R2503	VRS-CY1JF103J*	X	10k	1/16W	Metal Oxide	AA
R2504	VRS-CY1JF103J*	X	10k	1/16W	Metal Oxide	AA
R2505	VRD-RA2BE822J*	X	8.2k	1/8W	Carbon	AA
R2506	VRD-RA2BE822J*	X	8.2k	1/8W	Carbon	AA
R2507	VRD-RA2BE183J*	X	18k	1/8W	Carbon	AA
R2508	VRD-RA2BE183J*	X	18k	1/8W	Carbon	AA
R2509	VRS-CY1JF000J*	X	0	1/16W	Metal Oxide	AA
R2601	VRD-RA2BE100J*	X	10	1/8W	Carbon	AA
R2603	VRS-CY1JF000J*	X	0	1/16W	Metal Oxide	AA
R2605	VRS-CY1JF000J*	X	0	1/16W	Metal Oxide	AA
R2606	VRS-CY1JF000J*	X	0	1/16W	Metal Oxide	AA
R3001	VRS-CY1JF221J*	X	220	1/16W	Metal Oxide	AA
R3002	VRS-CY1JF221J*	X	220	1/16W	Metal Oxide	AA
R3003	VRS-CY1JF105J*	X	1M	1/16W	Metal Oxide	AA
R3004	VRS-CY1JF104J*	X	100k	1/16W	Metal Oxide	AA
R3005	VRS-CY1JF623J*	X	62k	1/16W	Metal Oxide	AA
R3007	VRS-CY1JF332J*	X	3.3k	1/16W	Metal Oxide	AA
R3008	VRS-CY1JF302J*	X	3k	1/16W	Metal Oxide	AA
R3010	VRS-CY1JF392J*	X	3.9k	1/16W	Metal Oxide	AA
R3017	VRS-CY1JF102J*	X	1k	1/16W	Metal Oxide	AA
R3018	VRS-CY1JF102J*	X	1k	1/16W	Metal Oxide	AA
R3019	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R3020	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R3021	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R3023	VRS-CY1JF101J*	X	100	1/16W	Metal Oxide	AA
R3024	VRD-RA2BE102J*	X	1k	1/8W	Carbon	AA

SWITCHES

S2501	QSW-KA003WJZZ+	X	Switch, POWER	AB
S2502	QSW-KA003WJZZ+	X	Switch, MENU	AB
S2503	QSW-KA003WJZZ+	X	Switch, VOL.-DOWN	AB
S2504	QSW-KA003WJZZ+	X	Switch, VOL.-UP	AB
S2505	QSW-KA003WJZZ+	X	Switch, CH-DOWN	AB
S2506	QSW-KA003WJZZ+	X	Switch, CH-UP	AB

MISCELLANEOUS PARTS

△ ACC701	QACCD A012WJPZ	X	AC Cord	AE
CF2040	RCRM-0003CEZZ+	X	Ceramic Vibrator	AC
FB601	RBLN-0047CEZZ*	X	Ferrite Bead	AB
FB706	RBLN-0037CEZZ*	X	Ferrite Bead	AA
FB2001	RBLN-0037CEZZ*	X	Ferrite Bead	AA
△ F701	QFS-B4023CEZZ	X	Fuse, 4A/125V	AB
FH701	QFSDH1013CEZZ+	X	Fuse Holder	AA
FH702	QFSDH1014CEZZ+	X	Fuse Holder	AA
J904	QJAKGA031WJZZ	X	Front AV In Jack	AC
J921	QSOCD0430CEZZ	X	S-Video terminal	AC
J1401	QTANJ1101SEZZ	X	AV In/Out Terminal	AF
P361	QPLGN0461CEZZA	X	Plug, 4pin(S1-4)	AB
P401	QPLGN0861CEZZA	X	Plug, 8pin(CJ)	AB
P605	QPLGN0160FJZZ	X	Plug, 5pin(K1-5)	AB
P621	QPLGN0761CEZZA	X	Plug, 7pin(N)	AB

Ref. No. Part No. ★ Description Code

P651	QPLGN0361CEZZA	X	Plug, 3pin(TP651-3)	AB
P702	QPLGN0269GEZZ	X	Plug, 2pin(P1-2)	AB
P703	QPLGN0260CEZZ	X	Plug, 2pin(M1-2)	AB
P2401	QPLGN0661CEZZA	X	Plug, 6pin	AB
RMC2601	RRMCU0222CEZZ	X	Remote Receiver	AD
RY701	RRLYJ0081CEZZ	X	Relay	AD
TP701	QLUGP0102PEZZ	X	Lug	AA
RDA361	PRDARA0258PEFW	X	Heat Sink for IC361	AC
RDA501	PRDARA039WJFW	X	Heat Sink for IC501	AD
RDA601	PRDARA041WJFW	X	Heat Sink for Q602	AD
RDA671	PRDARA057WJFW	X	Heat Sink for Q673	AC
RDA701	PRDARA0279PEFW	X	Heat Sink for Q701	AB
RDA750	PRDAR5072CEFW	X	Heat Sink for IC751	AB
RD1403	PRDAR5072CEFW	X	Heat Sink for IC1403	AB

**PWB-B: DUNTKA527WEV6
CRT UNIT****INTEGRATED CIRCUIT**

△ IC850	VHiTDA6103Q-1	X	TDA6103Q/N3	AG
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TRANSISTORS

Q850	VS2SA1266-Y-1+	X	2SA1266	AB
Q851	VS2SC3198-G-1+	X	2SC3198	AB
Q1504	VS2SC3198-G-1+	X	2SC3198	AB
Q1505	VS2SA1266-Y-1+	X	2SA1266	AB
Q1506	VS2SA1964E/-1	X	2SA1964E	AC
Q1507	VS2SC5248E/-1	X	2SC5248E	AC

DIODES

D853	RH-EX0647GEZZ*	X	Zener Diode, 15V	AB
D854	VHD1SS119/-1*	X	1SS119	AA
D855	VHD1SS119/-1*	X	1SS119	AA
D862	VHD1SS119/-1*	X	1SS119	AA
D1502	VHD1SS119/-1*	X	1SS119	AA
D1503	VHD1SS119/-1*	X	1SS119	AA
D1506	RH-DX0487CEZZ*	X	Diode	AB
D1507	RH-DX0487CEZZ*	X	Diode	AB
D1510	VHD1SS119/-1*	X	1SS119	AA

CAPACITORS

C850	VCFYSB2EB823J	X	0.082 250V	AB
C851	RC-KZ018JCEZZ	X	0.01 AC250V	AB
C852	VCEA0A1CW107M+X	100	16V Electrolytic	AA
C853	VCFYFA1HA224J+	X	0.22 50V Mylar	AB
C854	VCEA0A1CW227M+X	220	16V Electrolytic	AB
C855	VCEA0A2EW106M+X	10	250V Electrolytic	AB
C856	VCEA0A1HW226M+X	22	50V Electrolytic	AA
C1501	VCEA0A1CW476M+X	47	16V Electrolytic	AA
C1506	VCKYPA1HF103Z+	X	0.01 50V Ceramic	AA
C1508	VCKYPA2HB472K+	X	4700p 500V Ceramic	AB
C1509	VCKYPA1HB472K+	X	4700p 50V Ceramic	AA
C1510	VCKYPA1HF103Z+	X	0.01 50V Ceramic	AA
C1511	VCKYPA1HF103Z+	X	0.01 50V Ceramic	AA
C1515	VCEA0A1HW476M+X	47	50V Electrolytic	AB
C1516	VCEA0A1HW476M+X	47	50V Electrolytic	AB
C1517	VCEA0A2AW106M+X	10	100V Electrolytic	AB
C1518	VCCSPA2HL560K+	X	56p 500V Ceramic	AB
C1519	VCEA0A2CW106M+X	10	160V Electrolytic	AB

RESISTORS

△ R850	VRS-SV2HC152J	X	1.5k 1/2W Metal Oxide	AA
△ R851	VRS-SV2HC152J	X	1.5k 1/2W Metal Oxide	AA
△ R852	VRS-SV2HC152J	X	1.5k 1/2W Metal Oxide	AA
△ R853	VRS-SV2HC272J	X	2.7k 1/2W Metal Oxide	AA
△ R854	VRS-SV2HC272J	X	2.7k 1/2W Metal Oxide	AA
△ R855	VRS-SV2HC272J	X	2.7k 1/2W Metal Oxide	AA
R856	VRD-RM2HD104J*	X	100k 1/2W Carbon	AA
R857	VRD-RM2HD104J*	X	100k 1/2W Carbon	AA
R858	VRD-RM2HD104J*	X	100k 1/2W Carbon	AA
R861	VRD-RM2HD104J*	X	100k 1/2W Carbon	AA
R862	VRC-MA2HG152K*	X	1.5k 1/2W Solid	AB

Ref. No.	Part No.	★	Description	Code
PWB-B: DUNTKA527WEV6 CRT UNIT (Continued)				
R863	VRC-MA2HG152K*	X	1.5k 1/2W Solid	AB
R864	VRC-MA2HG152K*	X	1.5k 1/2W Solid	AB
△ R867	VRS-SV2HC392J	X	3.9k 1/2W Metal Oxide	AA
△ R868	VRS-SV2HC682J	X	6.8k 1/2W Metal Oxide	AA
R869	VRD-RA2BE103J*	X	10k 1/8W Carbon	AA
R870	VRD-RA2BE223J*	X	22k 1/8W Carbon	AA
R871	VRD-RA2BE472J*	X	4.7k 1/8W Carbon	AA
R872	VRD-RA2EE680J*	X	68 1/4W Carbon	AA
R873	VRD-RM2HD224J*	X	220k 1/2W Carbon	AA
R874	VRD-RM2HD104J*	X	100k 1/2W Carbon	AA
R875	VRD-RM2HD104J*	X	100k 1/2W Carbon	AA
R876	VRD-RM2HD104J*	X	100k 1/2W Carbon	AA
R877	VRD-RA2BE103J*	X	10k 1/8W Carbon	AA
△ R878	VRS-SV2HC120J	X	12 1/2W Metal Oxide	AA
R1511	VRD-RA2BE101J*	X	100 1/8W Carbon	AA
△ R1513	VRS-VV3DB561J	X	560 2W Metal Oxide	AB
R1514	VRD-RA2BE100J*	X	10 1/8W Carbon	AA
R1515	VRD-RA2BE820J*	X	82 1/8W Carbon	AA
R1516	VRD-RA2BE820J*	X	82 1/8W Carbon	AA
R1517	VRD-RA2BE122J*	X	1.2k 1/8W Carbon	AA
R1518	VRD-RA2BE683J*	X	68k 1/8W Carbon	AA
R1519	VRD-RA2BE123J*	X	12k 1/8W Carbon	AA
R1520	VRD-RA2BE683J*	X	68k 1/8W Carbon	AA
R1521	VRD-RA2BE122J*	X	1.2k 1/8W Carbon	AA
R1525	VRD-RA2EE560J*	X	56 1/4W Carbon	AA
R1526	VRD-RA2EE560J*	X	56 1/4W Carbon	AA
R1527	VRD-RM2HD1R5J*	X	1.5 1/2W Carbon	AA
R1528	VRD-RM2HD1R5J*	X	1.5 1/2W Carbon	AA
△ R1529	VRS-VV3DB221J	X	220 2W Metal Oxide	AB
R1530	VRD-RA2BE122J*	X	1.2k 1/8W Carbon	AA
MISCELLANEOUS PARTS				
FB1501	RBLN-0020CEZZ+	X	Ferrite Bead	AB
P854	QPLGN0741CEZZ	X	Plug, 7pin(N)	AB
P860	QPLGN0841CEZZ	X	Plug, 8pin(C,J)	AB
△ P861	QPLGN0241CEZZ	X	Plug, 2pin(PU1-2)	AA
SC850	QSOCV1011CEZZ	X	CRT Socket	AC
RDA850	PRDAR0248PEFW	X	Heat Sink for IC850	AB
RDA1506	PRDAR5072CEFW	X	Heat Sink for Q1506	AB
RDA1507	PRDAR5072CEFW	X	Heat Sink for Q1507	AB
PWB-C: DUNTKA573WEV0 3-LINE Y/C UNIT				
INTEGRATED CIRCUITS				
IC1401	VHITC90A53F-1*	X	TC90A53F	AP
TRANSISTORS				
Q1403	VS2SB709AR/-1*	X	2SB709AR	AA
Q1406	VS2SB709AR/-1*	X	2SB709AR	AA
Q1408	VS2SB709AR/-1*	X	2SB709AR	AA
Q1401	VS2SD601AR/-1*	X	2SD601AR	AA
Q1402	VS2SD601AR/-1*	X	2SD601AR	AA
Q1404	VS2SD601AR/-1*	X	2SD601AR	AA
Q1407	VS2SD601AR/-1*	X	2SD601AR	AA
COILS				
L1401	VP-XF100K0000*	X	Peaking 10μH	AA
L1402	VP-XF100K0000*	X	Peaking 10μH	AA
L1406	VP-XF220K0000*	X	Peaking 22μH	AA
L1407	VP-XF220K0000*	X	Peaking 22μH	AA
L1408	VP-XF100K0000*	X	Peaking 10μH	AA
L1410	VP-XF100K0000*	X	Peaking 10μH	AA
L1414	VP-XF330K0000*	X	Peaking 33μH	AA
L1417	VP-XF220K0000*	X	Peaking 22μH	AA
CAPACITORS				
C1412	VCEA0A1HW106M+X	10	50V Electrolytic	AA

Ref. No.	Part No.	★	Description	Code
C1413	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1414	VCCCCY1HH3R0C*X	3.0p	50V Ceramic	AA
C1415	VCE9GA1CW106M+X	10	16V Elect.(N,P)	AB
C1416	VCEA0A1CW477M+X	470	16V Electrolytic	AB
C1417	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
C1420	VCCCCY1HH270J*	X	27p 50V Ceramic	AA
C1421	VCCCCY1HH120J*	X	12p 50V Ceramic	AA
C1422	VCCCCY1HH120J*	X	12p 50V Ceramic	AA
C1423	VCCCCY1HH3R0C*X	3.0p	50V Ceramic	AA
C1424	VCCCCY1HH270J*	X	27p 50V Ceramic	AA
C1425	VCCCCY1HH100D*X	X	10p 50V Ceramic	AA
C1428	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1435	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1436	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
C1439	VCE9GA1CW106M+X	10	16V Elect.(N,P)	AB
C1440	VCEA0A1HW106M+X	10	50V Electrolytic	AA
C1441	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1442	VCFYFA1HA474J+	X	0.47 50V Mylar	AB
C1443	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1444	VCKYCY1HB472K*X	4700p	50V Ceramic	AA
C1445	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1446	VCCCCY1HH181J*	X	180p 50V Ceramic	AA
C1447	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1448	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
C1449	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
C1451	VCEA0A1CW107M+X	100	16V Electrolytic	AA
C1452	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
C1453	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1454	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1455	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1456	VCKYCY1CF104Z*	X	0.1 16V Ceramic	AA
C1457	VCEA0A1HW106M+X	10	50V Electrolytic	AA
C1458	VCEA0A1HW106M+X	10	50V Electrolytic	AA
C1460	VCKYCY1HF103Z*	X	0.01 50V Ceramic	AA
C1470	VCCCCY1HH270J*	X	27p 50V Ceramic	AA
C1474	VCCCCY1HH150J*	X	15p 50V Ceramic	AA
RESISTORS				
R1402	VRS-CY1JF000J*	X	0 1/16W Metal Oxide	AA
R1405	VRS-CY1JF361J*	X	360 1/16W Metal Oxide	AA
R1406	VRS-CY1JF102J*	X	1k 1/16W Metal Oxide	AA
R1407	VRS-CY1JF102J*	X	1k 1/16W Metal Oxide	AA
R1410	VRS-CY1JF473J*	X	47k 1/16W Metal Oxide	AA
R1411	VRS-CY1JF223J*	X	22k 1/16W Metal Oxide	AA
R1412	VRS-CY1JF102J*	X	1k 1/16W Metal Oxide	AA
R1413	VRS-CY1JF122J*	X	1.2k 1/16W Metal Oxide	AA
R1414	VRS-CY1JF331J*	X	330 1/16W Metal Oxide	AA
R1415	VRS-CY1JF391J*	X	390 1/16W Metal Oxide	AA
R1416	VRS-CY1JF102J*	X	1k 1/16W Metal Oxide	AA
R1421	VRS-CY1JF471F*	X	470 1/16W Metal Oxide	AA
R1423	VRS-CY1JF152F*	X	1.5k 1/16W Metal Oxide	AA
R1426	VRS-CY1JF000J*	X	0 1/16W Metal Oxide	AA
R1428	VRS-CY1JF332J*	X	3.3k 1/16W Metal Oxide	AA
R1429	VRS-CY1JF222J*	X	2.2k 1/16W Metal Oxide	AA
R1430	VRS-CY1JF473J*	X	47k 1/16W Metal Oxide	AA
R1431	VRS-CY1JF223J*	X	22k 1/16W Metal Oxide	AA
R1432	VRS-CY1JF102J*	X	1k 1/16W Metal Oxide	AA
R1433	VRS-CY1JF122J*	X	1.2k 1/16W Metal Oxide	AA
R1434	VRS-CY1JF331J*	X	330 1/16W Metal Oxide	AA
R1435	VRS-CY1JF102J*	X	1k 1/16W Metal Oxide	AA
R1436	VRS-CY1JF331J*	X	330 1/16W Metal Oxide	AA
R1438	VRS-CY1JF222J*	X	2.2k 1/16W Metal Oxide	AA
R1456	VRS-CY1JF564J*	X	560k 1/16W Metal Oxide	AA
R1457	VRS-CY1JF103J*	X	10k 1/16W Metal Oxide	AA
R1458	VRD-RA2BE103J*	X	10k 1/8W Carbon	AA
R1459	VRS-CY1JF821J*	X	820 1/16W Metal Oxide	AA
R1466	VRS-CY1JF103J*	X	10k 1/16W Metal Oxide	AA
R1467	VRS-CY1JF682J*	X	6.8k 1/16W Metal Oxide	AA
R1473	VRS-CY1JF102J*	X	1k 1/16W Metal Oxide	AA
R1475	VRS-CY1JF102J*	X	1k 1/16W Metal Oxide	AA
MISCELLANEOUS PARTS				
FB1401	RBLN-0061TAZZ*	X	Ferrite Bead	AA
P1401	QPLGZ0810CEZZ	X	Plug, 8pin	AB

Ref. No. Part No. * Description Code

**PWB-S: DUNTKB571WEV1
AUDIO UNIT**

INTEGRATED CIRCUITS

IC3501 VHiNJW1140G-1Y X NJW1140GK1 AM

DIODES

D3501 RH-EX0619GEZZ* X Zener Diode, 33V AB
D3502 RH-EX0619GEZZ* X Zener Diode, 33V AB

CAPACITORS

C3501 VCQYTA1HM104J+ X 0.1 50V Mylar AB
C3502 VCFYFA1HA334J+ X 0.33 50V AB
C3503 VCKYCY1HB822K* X 8200p 50V Ceramic AA
C3509 VCEA0A1HW105M+X 1 50V Electrolytic AA
C3510 VCEA0A1HW105M+X 1 50V Electrolytic AA
C3511 VCEA0A1HW105M+X 1 50V Electrolytic AA
C3512 VCEA0A1HW105M+X 1 50V Electrolytic AA
C3513 VCEA0A1HW105M+X 1 50V Electrolytic AA
C3514 VCEA0A1CW476M+X 47 16V Electrolytic AA
C3515 VCKYCY1HB103K* X 0.01 50V Ceramic AA
C3531 VCQYTA1HM104J+ X 0.1 50V Mylar AB
C3533 VCKYCY1EB223K* X 0.022 25V Ceramic AA
C3539 VCFYFA1HA334J+ X 0.33 50V Mylar AB
C3540 VCEA0A1HW105M+X 1 50V Electrolytic AA
C3541 VCEA0A1HW105M+X 1 50V Electrolytic AA
C3694 VCE9GA1HW475M+X 4.7 50V Elect.(N,P) AB
C3695 VCE9GA1HW475M+X 4.7 50V Elect.(N,P) AB

RESISTORS

R3501 VRS-CY1JF472J* X 4.7k 1/16W Metal Oxide AA
R3502 VRS-CY1JF221J* X 220 1/16W Metal Oxide AA
R3531 VRS-CY1JF221J* X 220 1/16W Metal Oxide AA
R3532 VRS-CY1JF221J* X 220 1/16W Metal Oxide AA
R3533 VRS-CY1JF221J* X 220 1/16W Metal Oxide AA

MISCELLANEOUS PARTS

P3004 QPLGN0242CEZZ X Plug, 2pin(TP3001-2) AA
P3006 QPLGZ0610CEZZ X Plug, 6pin AB
P3007 QPLGZ0610CEZZ X Plug, 6pin AB

MISCELLANEOUS PARTS

SP1 VSP1206PB708A X Speaker (L) AH
SP2 VSP1206PB708A X Speaker (R) AH
QCNW-B020WJZZ X Connecting Cord AC
QCNW-B021WJZZ X Connecting Cord AC
QCNW-B022WJZZ X Connecting Cord AC
QCNW-0190MEZZ X Connecting Cord AC

SUPPLIED ACCESSORIES

RRMCGA108WJSA X Infrared R-C Unit AT
TINS-A525WJZZ X Opearation Manual AE
(27F630) (Including Warranty)
TINS-A526WJZZ X Opearation Manual AE
(27F631) (Including Warranty)
TGAN-0001GJZZ X Regist card AB

Ref. No. Part No. * Description Code

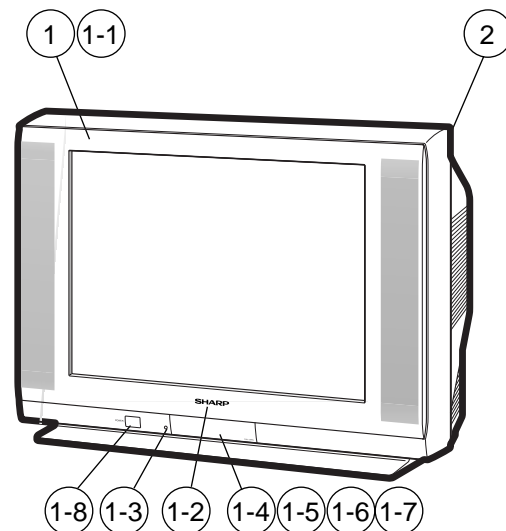
**PACKING PARTS
(NOT REPLACEMENT ITEM)**

SPAKCA433WJZZ - Packing Case —
SPAKP0109GJZZ - Wrapping Paper —
SPAKXA180WJZZ - Buffer Material —
SSAKA0101GJZZ - Polyethylene Bag —

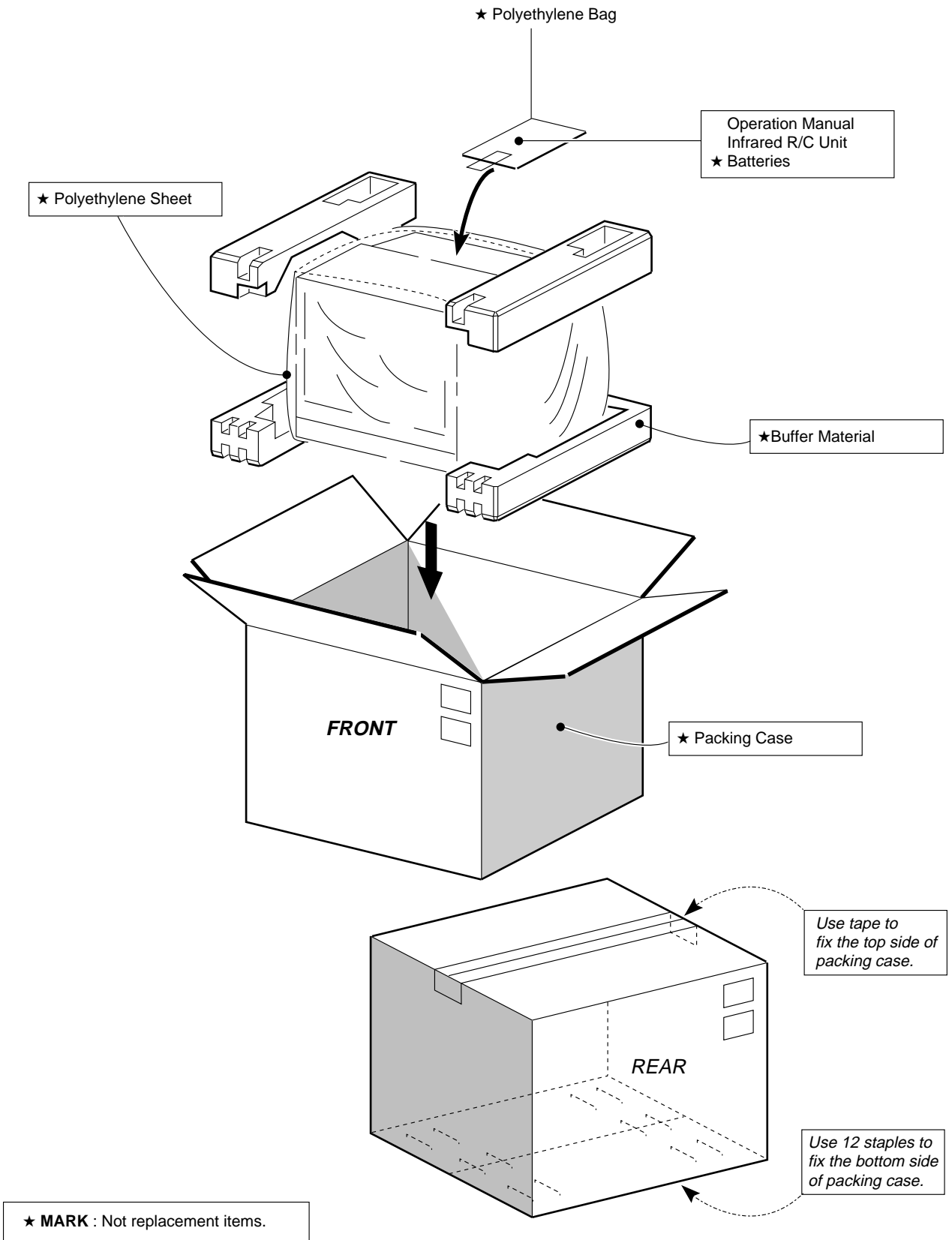
CABINET PARTS

1 CCABAA243WEH0 X Front Cabinet Ass'y (27F630) BD
1 CCABAA243WEH0 X Front Cabinet Ass'y (27F631) BE
1-1 - Front Cabinet —
1-2 HBDGB3141CESA X SHARP Badge AD
1-3 GCOVAA282WJKA X LED/RC Cover AC
1-4 GCOVHA017WJKZ X Cover AD
1-5 GDORFA027WJKA X Door AF
1-6 HINDPA278WJSA X Indication Plate AC
1-7 MSPRPA012WJFW X Spring AB
1-8 JBTN-A106WJKA X Power Button AE
2 GCABBA153WJKA X Rear Cabinet AZ

CABINET PARTS LOCATION



PACKING OF THE SET



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MY. DS

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